No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Berbiche, N., El Alami, J.	For Robust DDoS Attack Detection by IDS: Smart Feature Selection and Data Imbalance Management Strategies	anomaly based intrusion detection systems, features selection, correlation matrix, mutual information, oversampling techniques, SMOTE, BorderlineSMOTE, ADASYN	29, 4, 1227-1259	https://doi.org/10.18280/isi.290401	Berbiche, N., El Alami, J. (2024). For robust DDoS attack detection by IDS: Smart feature selection and data imbalance management strategies. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1227-1259. https://doi.org/10.18280/isi.290401
2	Hadji, A., Kholladi, M.K., Borisova, N.	Enhancing Spatial Information Extraction from Arabic Text: A Hybrid Approach with Ontology and Rule-Based	automatic information extraction, spatial ontology, jape rules, spatial information, Arabic NLP	29, 4, 1261-1273	https://doi.org/10.18280/isi.290402	Hadji, A., Kholladi, M.K., Borisova, N. (2024). Enhancing spatial information extraction from Arabic text: A hybrid approach with ontology and rule-based. Ingénierie des Systè mes d'Information, Vol. 29, No. 4, pp. 1261-1273. https://doi.org/10.18280/isi.290402
3	Puspitasari, D., Aprian, A.J., Sikumbang, E.D., Ramanda, K., Sukmana, S.H., Azizah, Q.N.	Heart Disease: Application of the K-Nearest Neighbor (KNN) Method	clustering, heart disease, blood sugar, K-Nearest Neighbor	29, 4, 1275-1281	https://doi.org/10.18280/isi.290403	Puspitasari, D., Aprian, A.J., Sikumbang, E.D., Ramanda, K., Sukmana, S.H., Azizah, Q.N. (2024). Heart disease: Application of the K-Nearest Neighbor (KNN) method. Ingé nierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1275-1281. https://doi.org/10.18280/isi.290403
4	Maulana, A., Subyantoro, S., Yuniawan, T., Pristiwati, R.	Development of Electronic Media Assisted Language Learning Modules with Cultural Literacy	electronic module, kvisoft flipbook maker, hikayat, cultural literacy	29, 4, 1283-1295	https://doi.org/10.18280/isi.290404	Maulana, A., Subyantoro, S., Yuniawan, T., Pristiwati, R. (2004). Development of electronic media assisted language learning modules with cultural literacy. Ingénierie des Systè mes d'Information, Vol. 29, No. 4, pp. 1283-1295. https://doi.org/10.18280/isi.290404
5	Guellil, Z., Mahammed, N., Keskes, N.	Distributed K-means Clustering Using Topological Relationships	data mining, clustering, distributed k-means algorithm, number of groups, topological relations	29, 4, 1297-1304	https://doi.org/10.18280/isi.290405	Guellil, Z., Mahammed, N., Keskes, N. (2024). Distributed k-means clustering using topological relationships. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1297-1304. https://doi.org/10.18280/isi.290405
6	Mohammed, L.A.K., Hasan, A.M., Hamza, E.K.	Pruning and Validation Techniques Enhanced Genetic Algorithm for Energy Efficiency in Wireless Sensor Networks	internet of things, wireless sensor networks, genetic algorithm variable chromosome length energy consumption	29, 4, 1305-1314	https://doi.org/10.18280/isi.290406	Mohammed, L.A.K., Hasan, A.M., Hamza, E.K. (2024). Pruning and validation techniques enhanced genetic algorithm for energy efficiency in wireless sensor networks. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1305-1314. https://doi.org/10.18280/isi.290406
7	Rather, K.U.I., Tarray, T.A., Adesina, O.S., Adedotun, A.F., Akingbade, T.J., Odekina, O.G.	An Efficient Poisson-Distributed Adaptive Cluster Sampling Model Using Randomized Response Strategy	randomized response technique, cluster sampling, dichotomous population, sensitive attribute, estimation of proportion, poisson distribution	29, 4, 1315-1321	https://doi.org/10.18280/isi.290407	Rather, K.U.I., Tarray, T.A., Adesina, O.S., Adedotun, A.F., Akingbade, T.J., Odekina, O.G. (2024). An efficient poisson-distributed adaptive cluster sampling model using randomized response strategy. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1315-1321. https://doi.org/10.18280/isi.290407
8	Subhiyakto, E.R., Rakasiwi, S., Zeniarja, J., Paramita, C., Shidik, G.F., Hasibuan, Z.A., Kesić, M.G.	Evaluation of Resampling Techniques in CNN-Based Heartbeat Classification	electrocardiogram (ECG), classification, PTB dataset, CNN, transformer, LSTM, SMOTE	29, 4, 1323-1332	https://doi.org/10.18280/isi.290408	Subhiyakto, E.R., Rakasiwi, S., Zeniarja, J., Paramita, C., Shidik, G.F., Hasibuan, Z.A., Kesić, M.G. (2024). Evaluation of resampling techniques in CNN-based heartbeat classification. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1323-1332. https://doi.org/10.18280/isi.290408
9	Tripathi, A., Choudhury, T., Sharma, H.K.	EEG Based Emotion Detection by Using Modified Tunicate Swarm Optimization Algorithm	emotion recognition, empirical mode decomposition, long short-term memory network, rat swarm optimization algorithm, variational mode decomposition	29, 4, 1333-1342	https://doi.org/10.18280/isi.290409	Tripathi, A., Choudhury, T., Sharma, H.K. (2024). EEG based emotion detection by using modified tunicate swarm optimization algorithm. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1333-1342. https://doi.org/10.18280/isi.290409
10	Mustar, M.Y., Hartanto, R., Santosa, P.I.	Exploring Attentive User Interface Input via Raspberry Pi, Based on Face Landmark Detection, Eye Open-Closed Detection and Head Movements Detection	AUI, Raspberry Pi, face landmark detection, eye open-closed detection, head movements detection	29, 4, 1343-1355	https://doi.org/10.18280/isi.290410	Mustar, M.Y., Hartanto, R., Santosa, P.I. (2024). Exploring attentive user interface input via Raspberry Pi, based on face landmark detection, eye open-closed detection and head movements detection. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1343-1355. https://doi.org/10.18280/isi.290410
11	Omar, H.K., Frikha, M., Jumaa, A.K.	PyTorch and TensorFlow Performance Evaluation in Big Data Recommendation System	big data, deep learning, NLP, PyTorch, recommendation system, TensorFlow, text mining	29, 4, 1357-1364	https://doi.org/10.18280/isi.290411	Omar, H.K., Frikha, M., Jumaa, A.K. (2024). PyTorch and TensorFlow performance evaluation in big data recommendation system. Ingénierie des Systèmes d' Information, Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1357-1364. https://doi.org/10.18280/isi.290411
12	Setiadi, H., Sanjaya, K., Wijayanto, A., Wardhani, D.W., Cahyono, H.D.	Comparative Analysis of Classification Algorithms Using Feature Selection Techniques to Predict On-Time Student Graduation	educational data mining, classification, feature selection, on-time graduation prediction	29, 4, 1365-1379	https://doi.org/10.18280/isi.290412	Setiadi, H., Sanjaya, K., Wijayanto, A., Wardhani, D.W., Cahyono, H.D. (2024). Comparative analysis of classification algorithms using feature selection techniques to predict on-time student graduation. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1365-1379. https://doi.org/10.18280/isi.290412
13	Hardianto, A., Marimin, Adrianto, L., Fahmi, I.	The Identification of Typologies and Levels Utilization of Non-Commercial Ports in Indonesia Using the Machine Learning Method	machine learning, non-commercial port, typology, utilization	29, 4, 1381-1395	https://doi.org/10.18280/isi.290413	Hardianto, A., Marimin, Adrianto, L., Fahmi, I. (2024). The identification of typologies and levels utilization of non-commercial ports in Indonesia using the machine learning method. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1381-1395. https://doi.org/10.18280/isi.290413
14	Sihabuddin, A., Rokhman, N., Wahyudi, E.E.	A Machine Learning Approach on Outlier Removal for Decision Tree Regression Method	outlier removal, Isolation Forest, decision tree regression, supervised learning, machine learning	29, 4, 1397-1403	https://doi.org/10.18280/isi.290414	Sihabuddin, A., Rokhman, N., Wahyudi, E.E. (2024). A machine learning approach on outlier removal for decision tree regression method. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1397-1403. https://doi.org/10.18280/isi.290414
15	Bindal, M., Kamat, V.	Diverse Bases for Functional Spaces for Non-Rigid Shape Correspondence	non-rigid deformations, functional maps, basis functions, point-to-point correspondences	29, 4, 1405-1422	https://doi.org/10.18280/isi.290415	Bindal, M., Kamat, V. (2024). Diverse bases for functional spaces for non-rigid shape correspondence. Ingénierie des Syst èmes d'Information, Vol. 29, No. 4, pp. 1405-1422. https://doi.org/10.18280/isi.290415

16	Saeed, Z., Abbas, A.S.	Evaluating Software Quality Metrics for Enhanced Software Management and Engineering	software quality metrics, standard metrics, quality metrics	29, 4, 1423-1440	https://doi.org/10.18280/isi.290416	Saeed, Z., Abbas, A.S. (2024). Evaluating software quality metrics for enhanced software management and engineering. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1423-1440. https://doi.org/10.18280/isi.290416
17	Maitanmi, O.S., Ogunyolu, O.A., Kuyoro, A.O.	Evaluation of Financial Credit Risk Management Models Based on Gradient Descent and Meta-Heuristic Algorithms	credit risk, deep learning, feature selection, gradient descent, multilayer perceptron, loan prediction, random forest	29, 4, 1441-1452	https://doi.org/10.18280/isi.290417	Maitanmi, O.S., Ogunyolu, O.A., Kuyoro, A.O. (2024). Evaluation of financial credit risk management models based on gradient descent and meta-heuristic algorithms. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1441-1452. https://doi.org/10.18280/isi.290417
18	Setiadi, D., Sumitra, T., Karim, A., Ritzkal.	Software Quality Measurement Analysis on Academic Information Systems	software measurement, software quality, software metrics, software indicators, academic information system, quality management	29, 4, 1453-1460	https://doi.org/10.18280/isi.290418	Setiadi, D., Sumitra, T., Karim, A., Ritzkal. (2024). Software quality measurement analysis on academic information systems. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1453-1460. https://doi.org/10.18280/isi.290418
19	Meqdad, M.N., Al-Qudsy, Z.N., Kadry, S., Haleem, A.S.	Using Neural Networks to Forecast the Configuration of Proteins	protein configuration, detection of the second type of protein, neural networks, pattern recognition	29, 4, 1461-1468	https://doi.org/10.18280/isi.290419	Meqdad, M.N., Al-Qudsy, Z.N., Kadry, S., Haleem, A.S. (2024). Using neural networks to forecast the configuration of proteins. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1461-1468. https://doi.org/10.18280/isi.290419
20	Iskandar, A., Retnawati, H., Haryanto, Sahariani.	Design of a Web-Based Information System for New Student Registration in Vocational High Schools	information system design, new student admissions, academic information systems	29, 4, 1469-1481	https://doi.org/10.18280/isi.290420	Iskandar, A., Retnawati, H., Haryanto, Sahariani. (2024). Design of a web-based information system for new student registration in vocational high schools. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1469-1481. https://doi.org/10.18280/isi.290420
21	Kusnandar, T., Santoso, J., Surendro, K.	Enhancing Color Selection in HSV Color Space	color constancy, color selection, heavy sidestep function, HSV color space	29, 4, 1483-1491	https://doi.org/10.18280/isi.290421	Kusnandar, T., Santoso, J., Surendro, K. (2024). Enhancing color selection in HSV color space. Ingénierie des Systèmes d' Information, Vol. 29, No. 4, pp. 1483-1491. https://doi.org/10.18280/isi.290421
22	Ghindawi, E.W.	Advanced Computer Vision Alignment Technique Using Preprocessing Filters and Deep Learning	CNN, image alignment, supervised learning, deep learning (DL), image denoising	29, 4, 1493-1499	https://doi.org/10.18280/isi.290422	Ghindawi, E.W. (2024). Advanced computer vision alignment technique using preprocessing filters and deep learning. Ingé nierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1493-1499. https://doi.org/10.18280/isi.290422
23	Mohammad, M.T., Alhafidh, B.M.H., Hagem, R.M.	Low-Cost Smart Insulin Box: A Portable and Interactive System for Enhanced Diabetes Management	diabetes management, embedded system, healthcare monitoring, IoT, low-cost insulin system, reminder, real time system, smart insulin box, wireless communication	29, 4, 1501-1508	https://doi.org/10.18280/isi.290423	Mohammad, M.T., Alhafidh, B.M.H., Hagem, R.M. (2024). Low-cost smart insulin box: A portable and interactive system for enhanced diabetes management. Ingénierie des Systèmes d' Information, Vol. 29, No. 4, pp. 1501-1508. https://doi.org/10.18280/isi.290423
24	Baaziz, M.L., Aliouat, Z., Aliouat, M.	Efficient Energy-Aware Clustering Approach Area Splitting-Based for Wireless Sensor Networks	WSN, energy conservation leach, Mod-leach, vleach	29, 4, 1509-1518	https://doi.org/10.18280/isi.290424	Baaziz, M.L., Aliouat, Z., Aliouat, M. (2024). Efficient energy-aware clustering approach area splitting-based for wireless sensor networks. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1509-1518. https://doi.org/10.18280/isi.290424
25	Abdullahi, M.O., Mohamud, I.H., Mohamud, F.A.S., Ali, A.F.	Analyzing Bibliometric Trends in the Social Internet of Things: A Review and Future Perspectives	internet of things, social internet of things, bibliometric analysis, research trends	29, 4, 1519-1527	https://doi.org/10.18280/isi.290425	Abdullahi, M.O., Mohamud, I.H., Mohamud, F.A.S., Ali, A.F. (2024). Analyzing bibliometric trends in the social internet of things: A review and future perspectives. Ingénierie des Systè mes d'Information, Vol. 29, No. 4, pp. 1519-1527. https://doi.org/10.18280/isi.290425
26	Hasan, S.N.	Accurate Deep Learning Algorithms for Skin Lesion Classification	skin lesion, dermoscopy images, deep learning, convolutional neural network, transfer learning, DenseNet201, ResNet52V2, HAM10000 dataset	29, 4, 1529-1539	https://doi.org/10.18280/isi.290426	Hasan, S.N. (2024). Accurate deep learning algorithms for skin lesion classification. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1529-1539. https://doi.org/10.18280/isi.290426
27	Swathi Mirthika, G.L., Sivakumar, B.	Bridging Data Complexity with GATNet for Learning in Interconnected Electronic Medical Records Graphs	electronic medical record, graph database, heterogeneous graph, knowledge graph, link prediction	29, 4, 1541-1548	https://doi.org/10.18280/isi.290427	Swathi Mirthika, G.L., Sivakumar, B. (2024). Bridging data complexity with GATNet for learning in interconnected electronic medical records graphs. Ingénierie des Systèmes d' Information, Vol. 29, No. 4, pp. 1541-1548. https://doi.org/10.18280/isi.290427
28	Nagle, M., Kumar, P.	M-GWO Algorithm to Predict Risk of Silent Heart Attack of Diabetes Patients - Cardidiabetes Model	cardiodibet framework, grey wolf optimization, GEETN, diabetes, cardiac arrest, stack model, continued-value based attributes, cholesterol	29, 4, 1549-1559	https://doi.org/10.18280/isi.290428	Nagle, M., Kumar, P. (2024). M-GWO algorithm to predict risk of silent heart attack of diabetes patients - Cardidiabetes model. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1549-1559. https://doi.org/10.18280/isi.290428
29	Prakosa, B.A., Afrianto, Y., Agustiyan, S., Setiadi, I.H.	Evaluating Bandwidth Management Techniques on Mikrotik Routers: A Multiple Linear Regression Approach	bandwidth management, Per Connection Queue (PCQ), Random Early Detection (RED), First In First Out (FIFO), prediction, linear regression, Simple Network Management Protocol (SNMP), cacti, Mikrotik	29, 4, 1561-1572	https://doi.org/10.18280/isi.290429	Prakosa, B.A., Afrianto, Y., Agustiyan, S., Setiadi, I.H. (2024). Evaluating bandwidth management techniques on Mikrotik routers: A multiple linear regression approach. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1561-1572. https://doi.org/10.18280/isi.290429
30	Hrich, N., Azekri, M., Khaldi, M.	Application of LSTM for Redundancy Detection in MCTS: Enhancing Test Precision	deep learning, Long Short-Term Memory (LSTM), Natural Language Processing (NLP), Multiple Choice Tests (MCTs), redundancy, items, distractors	29, 4, 1573-1579	https://doi.org/10.18280/isi.290430	Hrich, N., Azekri, M., Khaldi, M. (2024). Application of LSTM for redundancy detection in MCTS: Enhancing test precision. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1573-1579. https://doi.org/10.18280/isi.290430

31	Riyadi, S., Abidin, F.A., Damarjati, C.	Optimizing Coronary Artery Disease Detection Using a New Triple Concatenated Convolution Neural Network	coronary artery disease, transfer learning, Convolution Neural Network (CNN), Concatenation Model, image classification	29, 4, 1581-1589	https://doi.org/10.18280/isi.290431	Riyadi, S., Abidin, F.A., Damarjati, C. (2024). Optimizing coronary artery disease detection using a new triple concatenated Convolution Neural Network. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1581-1589. https://doi.org/10.18280/isi.290431
32	Mokkapati, R., Dasari, V.L.	Dynamic Malware Pattern Analysis with Rapid Node Behaviour Analysis Using Self Replication Model for Network Intrusion Detection	intrusion detection, dynamic malware analysis, node behaviour, normal patterns, unusual patterns, network security	29, 4, 1591-1601	https://doi.org/10.18280/isi.290432	Mokkapati, R., Dasari, V.L. (2024). Dynamic malware pattern analysis with rapid node behaviour analysis using self replication model for network intrusion detection. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1591-1601. https://doi.org/10.18280/isi.290432
33	Aniq, E., Chakraoui, M., Mouhni, N.	Innovative: A Novel Deep Learning-Based Semantic Segmentation Architecture for Medical Applications	medical applications, deep learning, semantic segmentation, encoder-decoder, atrous convolutions	29, 4, 1603-1609	https://doi.org/10.18280/isi.290433	Aniq, E., Chakraoui, M., Mouhni, N. (2024). Innovative: A novel deep learning-based semantic segmentation architecture for medical applications. Ingénierie des Systèmes d' Information, Vol. 29, No. 4, pp. 1603-1609. https://doi.org/10.18280/isi.290433
34	Alwan, E.H., Al-Qurabat, A.K.M.	Candidate Best Optimizations Sequences for Code Size Reduction	code size reduction, optimization sequence, LLVM	29, 4, 1611-1617	https://doi.org/10.18280/isi.290434	Alwan, E.H., Al-Qurabat, A.K.M. (2024). Candidate best optimizations sequences for code size reduction. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1611-1617. https://doi.org/10.18280/isi.290434
35	Stephan, J.J., Mohammed, M.Q.	Using Hybrid Deep Learning Approach to Enhanced Network Intrusion Detection with Spatial-Temporal Feature Integration	Intrusion Detection Systems (IDS), Difficult-Set-Sampling-Technique (DSST), Deep-Convolutional-Generative-Adversarial-Networks (DCGAN), EESNN, Telecommunications Network Internet of Things (ToN-IoT), CICIDS2019, SAT-Net	29, 4, 1619-1628	https://doi.org/10.18280/isi.290435	Stephan, J.J., Mohammed, M.Q. (2024). Using hybrid deep learning approach to enhanced network intrusion detection with spatial-temporal feature integration. Ingénierie des Systèmes d' Information, Vol. 29, No. 4, pp. 1619-1628. https://doi.org/10.18280/isi.290435
36	Ige, O.P., Gan, K.H.	Enhanced Artificial Bee Colony Algorithm with Pretrained Model Functional Weight and Modified Selection Strategy for Text Classification	metaheuristic algorithm, functional weight, selection strategy, pretrained model, text classification	29, 4, 1629-1638	https://doi.org/10.18280/isi.290436	Ige, O.P., Gan, K.H. (2024). Enhanced artificial bee colony algorithm with pretrained model functional weight and modified selection strategy for text classification. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1629-1638. https://doi.org/10.18280/isi.290436
37	Alfraheed, M.	3D Synthetic View for X-Ray Breast Cancer Mammogram Images	x-ray mammography images, digital breast tomosynthesis, synthetization view, supervised learning technique, breast cancer	29, 4, 1639-1652	https://doi.org/10.18280/isi.290437	Alfraheed, M. (2024). 3D synthetic view for x-ray breast cancer mammogram images. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1639-1652. https://doi.org/10.18280/isi.290437
38	Putra, Y.H., Triwibowo, B.A., Delenia, E., Croix, N.J.D.L., Ahmad, T.	Sensitivity of a Convolutional Neural Network for Different Pooling Layers in Spatial Domain Steganalysis	CNN, information security, national security, pooling layer, spatial domain images, steganalysis	29, 4, 1653-1665	https://doi.org/10.18280/isi.290438	Putra, Y.H., Triwibowo, B.A., Delenia, E., Croix, N.J.D.L., Ahmad, T. (2024). Sensitivity of a Convolutional Neural Network for different pooling layers in spatial domain steganalysis. Ingénierie des Systèmes d'Information, Vol. 29, No. 4, pp. 1653-1665. https://doi.org/10.18280/isi.290438
39	Al-Najjar, A.N., Rasid, M.F.A., Hashim, F., Ahmad, F.A., Jamalipour, A.	A Systematic Literature Review in Distributed Resource Allocation for C-V2X	distributed resource allocation, long-term evolution-V2X, new radio-V2X, cellular vehicle to everything, machine learning, congestion control	29, 3, 771-808	https://doi.org/10.18280/isi.290301	Al-Najjar, A.N., Rasid, M.F.A., Hashim, F., Ahmad, F.A., Jamalipour, A. (2024). A systematic literature review in distributed resource allocation for C-V2X. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 771-808. https://doi.org/10.18280/isi.290301
40	Okokpujie, K., Okokpujie, I.P., Abioye, F.A., Subair, R.E., Vincent, A.A.	Facial Anthropometry-Based Masked Face Recognition System	masked face recognition, unmasked face recognition, facial Anthropometry, COVID-19, facemask, facial landmarks, Local Binary Pattern Histogram, biometric, craniofacial plexus, face size, facial index, intercanthal index, orbital width index, nasal index	29, 3, 809-820	https://doi.org/10.18280/isi.290302	Okokpujie, K., Okokpujie, I.P., Abioye, F.A., Subair, R.E., Vincent, A.A. (2024). Facial anthropometry-based masked face recognition system. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 809-820. https://doi.org/10.18280/isi.290302
41	Bousmaha, K.Z., Hamadouche, K., Cheurfaoui, N., Hadrich-Belguith, L.	Subject Detection of Algerian Posts for Opinion Analysis	subject detection, opinion analysis, marketing, multi-class, Algerian dialect, TF-IDF, deep learning, keyword extraction	29, 3, 821-829	https://doi.org/10.18280/isi.290303	Bousmaha, K.Z., Hamadouche, K., Cheurfaoui, N., Hadrich-Belguith, L. (2024). Subject detection of Algerian posts for opinion analysis. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 821-829. https://doi.org/10.18280/isi.290303
42	Kozhirbayev, Z.	Enhancing Neural Machine Translation with Fine-Tuned mBART50 Pre-Trained Model: An Examination with Low-Resource Translation Pairs	neural machine translation, pre-trained models, fine-tuning, denoising auto-encoder, low-resource languages, Kazakh-Russian, Russian-Tatar	29, 3, 831-838	https://doi.org/10.18280/isi.290304	Kozhirbayev, Z. (2024). Enhancing neural machine translation with fine-tuned mBART50 Pre-Trained model: An examination with low-resource translation pairs. Ingénierie des Systèmes d' Information, Vol. 29, No. 3, pp. 831-838. https://doi.org/10.18280/isi.290304
43	Durga, P., Deepthi Godavarthi, D.	ERS – GARNET: An Ensemble Recommendation System for Sentiment Analysis Using Gated Attention-Based Recurrent Networks	Ensemble Recommendation System (ERS), sentiment analysis, DistilBERT, deep learning	29, 3, 839-852	https://doi.org/10.18280/isi.290305	Durga, P., Deepthi Godavarthi, D. (2024). ERS – GARNET: An ensemble recommendation system for sentiment analysis using gated attention-based recurrent networks. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 839-852. https://doi.org/10.18280/isi.290305
44	Hamiane, S., Ghanou, Y., Khalifi, H., Telmem, M.	Comparative Analysis of LSTM, ARIMA, and Hybrid Models for Forecasting Future GDP	Long Short-Term Memory (LSTM), economic and financial time series data, gross domestique product, GDP, Autoregressive Integrated Moving Average (ARIMA), hybrid models, He initialization	29, 3, 853-861	https://doi.org/10.18280/isi.290306	Hamiane, S., Ghanou, Y., Khalifi, H., Telmem, M. (2024). Comparative analysis of LSTM, ARIMA, and hybrid models for forecasting future GDP. Ingénierie des Systèmes d' Information, Vol. 29, No. 3, pp. 853-861. https://doi.org/10.18280/isi.290306
45	Ibraheem, M.K.I., Dvorkovich, A.V., Al-khafaji, I.M.A.	A Comprehensive Literature Review on Image and Video Compression: Trends, Algorithms, and Techniques	image compression, video compression, transform coding, predictive coding, entropy coding, machine learning, deep learning	29, 3, 863-876	https://doi.org/10.18280/isi.290307	Ibraheem, M.K.I., Dvorkovich, A.V., Al-khafaji, I.M.A. (2024). A comprehensive literature review on image and video compression: Trends, algorithms, and techniques. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 863-876. https://doi.org/10.18280/isi.290307

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47	Izang, A.A., Ajayi, O.F., Junaid, O., Nwigwe, B., Onyeka, P.O.	Design and Evaluation of a Peer-to-Peer Student Lending Platform to Mitigate Information Asymmetry and Credit Risk	peer-to-peer lending, student loan, information asymmetry, credit risk, loan performance, P2P framework, software development, educational finance	29, 3, 885-894	https://doi.org/10.18280/isi.290309	Izang, A.A., Ajayi, O.F., Junaid, O., Nwigwe, B., Onyeka, P.O. (2024). Design and evaluation of a peer-to-peer student lending platform to mitigate information asymmetry and credit risk. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 885-894. https://doi.org/10.18280/isi.290309
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49	Kundaikar, T., Fadte, S., Karmali, R., Wagh, R., Pawar, J.D.	Modi Document Transcription to Devanagari	Modi, Devanagari, Long Short-Term Memory (LSTM), Optical Character Recognition (OCR), transcription, dataset, script	29, 3, 909-915	https://doi.org/10.18280/isi.290311	Kundaikar, T., Fadte, S., Karmali, R., Wagh, R., Pawar, J.D. (2024). Modi document transcription to Devanagari. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 909-915. https://doi.org/10.18280/isi.290311
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52	Gandhi, A., Gani, P.H.	Would Lecturers Use AI-Based Software to Write Scientific Article? A Quantitative Approach in Indonesia	software adoption, artificial intelligence, AI-based software, lecturer, factors identification	29, 3, 941-950	https://doi.org/10.18280/isi.290314	Gandhi, A., Gani, P.H. (2024). Would lecturers use AI-based software to write scientific article? A quantitative approach in Indonesia. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 941-950. https://doi.org/10.18280/isi.290314
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54	Nizamuddin, M.K., Mohammad, A.A.K., Hashmi, S.S., HariKrishna, D., Anusha, M.	Efficient Routing in MANETs by Optimizing Packet Loss	MANET, routing, buffer overflow, packet loss mitigation, intermediary node selection, network reliability, and congestion control	29, 3, 961-968	https://doi.org/10.18280/isi.290316	Nizamuddin, M.K., Mohammad, A.A.K., Hashmi, S.S., HariKrishna, D., Anusha, M. (2024). Efficient routing in MANETs by optimizing packet loss. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 961-968. https://doi.org/10.18280/isi.290316
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58	Subbarayudu, Y., Sureshbabu, A.	Cluster Visualized Topic Modeling Paradigms for Recognition of Health-Related Topics Through a Machine Learning	blockchain technology, machine learning, ledger, consensus, topic modeling, healthcare, decentralized platform, and sentiment analysis	29, 3, 1015-1030	https://doi.org/10.18280/isi.290320	Subbarayudu, Y., Sureshbabu, A. (2024). Cluster visualized topic modeling paradigms for recognition of health-related topics through a machine learning. Ingénierie des Systèmes d'Information, Vol. 29, No. 3, pp. 1015-1030. https://doi.org/10.18280/isi.290320
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84	Oudina, Z., Derdour, M., Dib, A., Yaakoubi, M.A.	Identifying and Addressing Trust Concerns in Cyber-Physical Systems for the Oil and Gas Industry	Cyber-physical systems (CPSs), trust CPS, trust concerns, oil and gas(O&G), risk mitigation	29, 2, 469-478	https://doi.org/10.18280/isi.290208	Oudina, Z., Derdour, M., Dib, A., Yaakoubi, M.A. (2024). Identifying and addressing trust concerns in cyber-physical systems for the oil and gas industry. Ingénierie des Systèmes d' Information, Vol. 29, No. 2, pp. 469-478. https://doi.org/10.18280/isi.290208
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87	Reda, N.H., Abbas, H.H.	3D Human Facial Traits' Analysis for Ethnicity Recognition Using Deep Learning	3D face classification, deep learning, face morphology, geometric features, race classification	29, 2, 501-514	https://doi.org/10.18280/isi.290211	Reda, N.H., Abbas, H.H. (2024). 3D human facial traits' analysis for ethnicity recognition using deep learning. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 501-514. https://doi.org/10.18280/isi.290211
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89	Azanbay, K.	Innovative Technologies as a Factor of Information Security of the Republic of Kazakhstan	data protection, information security, automated processes, technological innovation, digital economy, advanced systems, Kazakhstan	29, 2, 523-532	https://doi.org/10.18280/isi.290213	Azanbay, K. (2024). Innovative technologies as a factor of information security of the Republic of Kazakhstan. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 523-532. https://doi.org/10.18280/isi.290213
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95	Bouhata, D., Bouam, S., Moumen, H., Benreguia, B., Arar, C.	Self-Stabilizing Algorithms for Computing Maximal Distance-2 Independent Sets and Minimal Dominating Sets in Networks	self-stabilizing algorithm, expression model, maximal independent set, minimal dominating set, distributed system, network	29, 2, 581-590	https://doi.org/10.18280/isi.290219	Bouhata, D., Bouam, S., Moumen, H., Benreguia, B., Arar, C. (2024). Self-stabilizing algorithms for computing maximal distance-2 independent sets and minimal dominating sets in networks. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 581-590. https://doi.org/10.18280/isi.290219
96	Maksutova, K., Niyazova, R., Talgat, A., Anetova, A., Yergesh, M.	Synthesis of Concepts and Applications of Information Intelligent Systems and Knowledge Bases in Computer Science: A Systematic Literature Review	artificial intelligence, knowledge bases, intelligent systems, digital technologies in education, information systems, IT sphere, learning process, system analysis	29, 2, 591-598	https://doi.org/10.18280/isi.290220	Maksutova, K., Niyazova, R., Talgat, A., Anetova, A., Yergesh, M. (2024). Synthesis of concepts and applications of information intelligent systems and knowledge bases in computer science: A systematic literature review. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 591-598. https://doi.org/10.18280/isi.290220
97	Hadi, F., Slimani, Y., Douar, A., Alti, A., Saoud, F., Harkati, M.	Improved Vigenere Cipher-RSA-Based Medical Image Security Through Multiple Encryption Keys	cryptography, encryption and decryption, medical images, DICOM, RSA, security, transmission, Vigenere cipher	29, 2, 599-608	https://doi.org/10.18280/isi.290221	Hadi, F., Slimani, Y., Douar, A., Alti, A., Saoud, F., Harkati, M. (2024). Improved Vigenere cipher-rsa-based medical image security through multiple encryption keys. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 599-608. https://doi.org/10.18280/isi.290221
98	Awad, A.S., Khalaf, M., Alsaadi, M.	Deep Learning-Enhanced Cluster Head Optimization for Intrusion Detection in Wireless Sensor Networks	cluster head selection, optimization, deep neural network, anomaly detection, classification	29, 2, 609-618	https://doi.org/10.18280/isi.290222	Awad, A.S., Khalaf, M., Alsaadi, M. (2024). Deep learning-enhanced cluster head optimization for intrusion detection in wireless sensor networks. Ingénierie des Systèmes d' Information, Vol. 29, No. 2, pp. 609-618. https://doi.org/10.18280/isi.290222
99	Kundaikar, T., Fadte, S., Karmali, R., Pawar, J.D.	Automatic Hindi OCR Error Correction Using MLM-BERT	Hindi, devanagari, MLM BERT, OCR, error correction, natural language processing, deep learning, post-processing	29, 2, 619-626	https://doi.org/10.18280/isi.290223	Kundaikar, T., Fadte, S., Karmali, R., Pawar, J.D. (2024). Automatic Hindi OCR error correction using MLM-BERT. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 619-626. https://doi.org/10.18280/isi.290223
100	Devi, S.	Review of Android Apps for Monitoring Pregnancy Symptoms and Care	monitoring 1, pregnancy symptom 2, self-care 3, mHealth 4, pregnancy care 5, Androd mobile application	29, 2, 627-636	https://doi.org/10.18280/isi.290224	Devi, S. (2024). Review of Android apps for monitoring pregnancy symptoms and care. Ingénierie des Systèmes d' Information, Vol. 29, No. 2, pp. 627-636. https://doi.org/10.18280/isi.290224
101	Christanto, H.J., Lukas, Sutresno, S.A., Karolen, J.	Unifying Variable Importance Scores from Different Machine Learning Models Using Simulated Annealing	service quality, Servqual, user satisfaction, IT service	29, 2, 637-648	https://doi.org/10.18280/isi.290225	Christanto, H.J., Lukas, Sutresno, S.A., Karolen, J. (2024). Evaluating user satisfaction of IT services through service quality approach. Ingénierie des Systèmes d'Information, Vol 29, No. 2, pp. 637-648. https://doi.org/10.18280/isi.290225
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103	Zhukova, O., Mandragelia, V., Chepurna, V., Ivanenko, L., Noskova, M.	A Model of Using Digital Information Systems to Create Video Game Contexts: The Case of GPT Models and Its Effect	artificial intelligence, information technology, information systems, video games, digital sphere, chat model, management strategies	29, 2, 659-667	https://doi.org/10.18280/isi.290227	Zhukova, O., Mandragelia, V., Chepurna, V., Ivanenko, L., Noskova, M. (2024). A model of using digital information systems to create video game contexts: The case of GPT models and its effect. Ingénierie des Systèmes d'Information, Vol. 29, No. 2, pp. 659-667. https://doi.org/10.18280/isi.290227
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110	Kryshtanovych, M., Snihur, L., Buzhyna, I., Tiurina, D., Imeridze, M.	Development of New Information Systems with the Involvement of Artificial Intelligence for the Men and Women's Work: A Methodical Approach to Assessment and Selection of the Optimal	information, information Systems, artificial intelligence, modeling, men and women's work	29, 2, 723-730	https://doi.org/10.18280/isi.290234	Kryshtanovych, M., Snihur, L., Buzhyna, I., Tiurina, D., Imeridze, M. (2024). Development of new information systems with the involvement of artificial intelligence for the men and women's work: A methodical approach to assessment and selection of the optimal. Ingénierie des Systèmes d' Information, Vol. 29, No. 2, pp. 723-730. https://doi.org/10.18280/isi.290234
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112	Khalifi, H., Riahi, S., Cherif, W.	Smart Cities and Sustainable Urban Development in Morocco	information and communications technology, smart cities, territorial transformation, urban planning, sustainable governance, territorial development, Moroccan cities	29, 2, 741-751	https://doi.org/10.18280/isi.290236	Khalifi, H., Riahi, S., Cherif, W. (2024). Smart cities and sustainable urban development in Morocco. Ingénierie des Syst èmes d'Information, Vol. 29, No. 2, pp. 741-751. https://doi.org/10.18280/isi.290236
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114	Mishra, P., Dash, R.K., Choudhury, T., Kotecha, K.	Optimizing Residual Energy and Delay in WSN Routing Using Particle Swarm Optimization	residual energy, particle swarm optimization, WSN lifetime, energy model, shortest path	29, 2, 761-770	https://doi.org/10.18280/isi.290238	Mishra, P., Dash, R.K., Choudhury, T., Kotecha, K. (2024). Optimizing residual energy and delay in WSN routing using particle swarm optimization. Ingénierie des Systèmes d' Information, Vol. 29, No. 2, pp. 761-770. https://doi.org/10.18280/isi.290238
115	Babu, B.V.S., Babu, K.S., Kare, D.P.	BAB-SDMM: Blockchain Attribute Based Secure Data Management Model	block chain, attribute, revocation, auxiliary tree, smart contract, encryption, decryption, policies	29, 1, 1-8	https://doi.org/10.18280/isi.290101	Babu, B.V.S., Babu, K.S., Kare, D.P. (2024). BAB-SDMM: Blockchain attribute based secure data management model. Ing énierie des Systèmes d'Information, Vol. 29, No. 1, pp. 1-8. https://doi.org/10.18280/isi.290101
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117	Mohammed, S., Al-Aaraji, N., Al-Saleh, A.	Comparative Analysis of Blockchain Platforms for Security Enhancement in Online Social Networks	online social networks, security attacks, blockchain, centralized social networks, decentralized social networks, blockchain platforms, Steem, Ethereum	29, 1, 19-25	https://doi.org/10.18280/isi.290103	Mohammed, S., Al-Aaraji, N., Al-Saleh, A. (2024). Comparative analysis of blockchain platforms for security enhancement in online social networks. Ingénierie des Systè mes d'Information, Vol. 29, No. 1, pp. 19-25. https://doi.org/10.18280/isi.290103
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119	Suryawati, C.T., Kholili, M.I., Susilo, A.T., Asrowi, Surur, N.	Enhancing Effectiveness of Guidance and Counseling Services Through Web-Based Interactive Media	web-based counseling, Interactive Media in Education, Content Validity Index (CVI), student engagement, educational technology	29, 1, 37-48	https://doi.org/10.18280/isi.290105	Suryawati, C.T., Kholili, M.I., Susilo, A.T., Asrowi, Surur, N. (2024). Enhancing effectiveness of guidance and counseling services through web-based interactive media. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 37-48. https://doi.org/10.18280/isi.290105
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123	Beyyala, A., Priya, R., Choudari, S.R., Bhavani, R.	Swin Transformer and Attention Guided Thyroid Nodule Segmentation on Ultrasound Images	attention guided network, DDTI, deep learning, Swin Transformer, thyroid nodule, ultrasound image segmentation	29, 1, 75-81	https://doi.org/10.18280/isi.290109	Beyyala, A., Priya, R., Choudari, S.R., Bhavani, R. (2024). Swin Transformer and attention guided thyroid nodule segmentation on ultrasound images. Ingénierie des Systèmes d' Information, Vol. 29, No. 1, pp. 75-81. https://doi.org/10.18280/isi.290109
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125	Masykur, F., Adi, K., Nurhayati, O.D.	Measuring Agricultural Area Using YOLO Object Detection and ArUco Markers	Yolo v4, ArUco marker, reference image, object detection, drone image	29, 1, 95-106	https://doi.org/10.18280/isi.290111	Masykur, F., Adi, K., Nurhayati, O.D. (2024). Measuring agricultural area using Yolo object detection and ArUco markers. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 95-106. https://doi.org/10.18280/isi.290111
126	Christanto, H.J., Sutresno, S.A., Singgalen, Y.A., Dewi, C.	Analyzing Benefits of Online Train Ticket Reservation App Using Technology Acceptance Model	KAI access, satisfaction, structural equation model, technology acceptance model, train reservation ticket	29, 1, 107-115	https://doi.org/10.18280/isi.290112	Christanto, H.J., Sutresno, S.A., Singgalen, Y.A., Dewi, C. (2024). Analyzing benefits of online train ticket reservation app using technology acceptance model. Ingénierie des Systèmes d' Information, Vol. 29, No. 1, pp. 107-115. https://doi.org/10.18280/isi.290112
127	Loucif, H.	A Hybrid Deep Learning Approach for Spam Detection in Twitter	spam, deep neural networks, CNN, PCA, Twitter, Anomaly detection, text classification, social networks, cybersecurity	29, 1, 117-123	https://doi.org/10.18280/isi.290113	Loucif, H. (2024). A hybrid deep learning approach for spam detection in Twitter. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 117-123. https://doi.org/10.18280/isi.290113
128	Chasipanta, G.R.V., Sánchez-Pozo, N.N.	Long-Term Forecasting of Euro-Dollar Exchange Rates Using the ARIMA Model and Multilayer Perceptron	exchange rates, time series forecasting, ARIMA, neural network, MLP multilayer perceptron, accuracy, scaled mean absolute error (MASE), long-term prediction	29, 1, 125-139	https://doi.org/10.18280/isi.290114	Chasipanta, G.R.V., Sánchez-Pozo, N.N. (2024). Long-term forecasting of euro-dollar exchange rates using the ARIMA model and multilayer perceptron. Ingénierie des Systèmes d' Information, Vol. 29, No. 1, pp. 125-139. https://doi.org/10.18280/isi.290114
129	Jawad, W.K., Kaittan, N.M., Sabri, B.T.	Neuronal Network-Founded Machine Knowledge with Pythons in Data Mining for Vast Information Classifications	distributions on the big data, transform of the analytics, basic process of data mining, sectorize, the identification of review	29, 1, 141-146	https://doi.org/10.18280/isi.290115	Jawad, W.K., Kaittan, N.M., Sabri, B.T. (2024). Neuronal network-founded machine knowledge with pythons in data mining for vast information classifications. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 141-146. https://doi.org/10.18280/isi.290115
130	Jawad, W., Al-Bakry, A.	Comparative Efficiency Evaluation of Hadoop and Spark Frameworks Using Random Forest Algorithm for Intrusion Detection	big data, distributed frameworks, Hadoop, intrusion detection system, machine learning, performance, Random Forest, spark	29, 1, 147-152	https://doi.org/10.18280/isi.290116	Jawad, W., Al-Bakry, A. (2024). Comparative efficiency evaluation of Hadoop and spark frameworks using random forest algorithm for intrusion detection. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 147-152. https://doi.org/10.18280/isi.290116
131	Bobrova, Y., Bobrov, Y., Vavreniuk, S., Bondarenko, O.	Algorithmic Framework for an Information System Ensuring Sustainable Development and National Security	sustainable development, information, security, system, information system, graphical modeling language	29, 1, 153-159	https://doi.org/10.18280/isi.290117	Bobrova, Y., Bobrov, Y., Vavreniuk, S., Bondarenko, O. (2024). Algorithmic framework for an information system ensuring sustainable development and national security. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 153-159. https://doi.org/10.18280/isi.290117
132	Chamid, A.A., Widowati, Kusumaningrum, R.	Labeling Consistency Test of Multi-Label Data for Aspect and Sentiment Classification Using the Cohen Kappa Method	labeling multi-label data, aspect-based sentiment analysis, consistency test, Cohen Kappa, classification	29, 1, 161-167	https://doi.org/10.18280/isi.290118	Chamid, A.A., Widowati, Kusumaningrum, R. (2024). Labeling consistency test of multi-label data for aspect and sentiment classification using the Cohen Kappa method. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 161-167. https://doi.org/10.18280/isi.290118
133	Almiman, A., Othman, M.T.B.	Predictive Analysis of Computer Science Student Performance: An ACM2013 Knowledge Area Approach	Educational Data Mining (EDM), Association for Computing Machinery (ACM), Knowledge Area (KA), data mining, machine learning, prediction model	29, 1, 169-189	https://doi.org/10.18280/isi.290119	Almiman, A., Othman, M.T.B. (2024). Predictive analysis of computer science student performance: An ACM2013 knowledge area approach. Ingénierie des Systèmes d' Information, Vol. 29, No. 1, pp. 169-189. https://doi.org/10.18280/isi.290119
134	Berbiche, N., Hlyal, M., El Alami, J.	Enhancing Supply Chain Resilience and Efficiency through Fuzzy Logic-based Decision-Making Automation in Volatile Environments	decision-making automation, fuzzy logic, Mamdani approach, MATLAB, predictive models, supply chain planning, uncertainty mitigation	29, 1, 191-203	https://doi.org/10.18280/isi.290120	Berbiche, N., Hlyal, M., El Alami, J. (2024). Enhancing supply chain resilience and efficiency through fuzzy logic-based decision-making automation in volatile environments. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 191-203. https://doi.org/10.18280/isi.290120
135	Sahibu, S., Sakti, A., Iskandar, A.	Risk Management Analysis of SMK Telkom Makassar's Integrated Academic Information System in Compliance with ISO 31000 Standards	Integrated Academic Information System (iGracias), SMK Telkom Makassar and information technology security	29, 1, 205-218	https://doi.org/10.18280/isi.290121	Sahibu, S., Sakti, A., Iskandar, A. (2024). Risk management analysis of SMK Telkom Makassar's Integrated Academic Information System in compliance with ISO 31000 standards. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 205-218. https://doi.org/10.18280/isi.290121

136	Yasa, A.D., Rahayu, S., Handayanto, S.K., Ekawati, R.	Evaluating the Impact of Smart Learning-Based Inquiry on Enhancing Digital Literacy and Critical Thinking Skills	21st-century skills, critical thinking, digital literacy, educational technology, inquiry-based learning, smart learning-based inquiry (SLBI)	29, 1, 219-233	https://doi.org/10.18280/isi.290122	Yasa, A.D., Rahayu, S., Handayanto, S.K., Ekawati, R. (2024). Evaluating the impact of smart learning-based inquiry on enhancing digital literacy and critical thinking skills. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 219-233. https://doi.org/10.18280/isi.290122
137	Paladugu, R.K., Kancherla, G.R.	Augmenting Document Classification Accuracy Through the Integration of Deep Contextual Embeddings	Deep Contextual Embedding Models, text clustering algorithms, document classification, natuaral language processing and machine learning	29, 1, 235-246	https://doi.org/10.18280/isi.290123	Paladugu, R.K., Kancherla, G.R. (2024). Augmenting document classification accuracy through the integration of deep contextual embeddings. Ingénierie des Systèmes d' Information, Vol. 29, No. 1, pp. 235-246. https://doi.org/10.18280/isi.290123
138	Khan, S.S., Sudan, J.S., Pathak, A., Pandit, R., Rane, P., Kumawat, A.K.	A Review of EEG Artifact Removal Methods for Brain-Computer Interface Applications	electroencephalogram (EEG), brain-computer interface (BCI), artifact removal, Principal Component Analysis (PCA), wavelet convolution	29, 1, 247-252	https://doi.org/10.18280/isi.290124	Khan, S.S., Sudan, J.S., Pathak, A., Pandit, R., Rane, P., Kumawat, A.K. (2024). A review of EEG artifact removal methods for brain-computer interface applications. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 247-252. https://doi.org/10.18280/isi.290124
139	Sangwan, P., Banita.	Role of Blockchain Technology in Data Security for Healthcare	healthcare, blockchain, encryption, security, performance, hashing, deep learning	29, 1, 253-260	https://doi.org/10.18280/isi.290125	Sangwan, P., Banita. (2024). Role of blockchain technology in data security for healthcare. Ingénierie des Systèmes d' Information, Vol. 29, No. 1, pp. 253-260. https://doi.org/10.18280/isi.290125
140	Hadi, T.H., Kadum, J., Kadhim, Q.K., Ahmed, S.T.	An Enhanced Cloud Storage Auditing Approach Using Boneh-Lynn-Shacham 's Signature and Automatic Blocker Protocol	public auditing, cloud computing, automatic blocker protocol, third-party auditors, cloud storage, Boneh-Lynn-Shacham's	29, 1, 261-268	https://doi.org/10.18280/isi.290126	Hadi, T.H., Kadum, J., Kadhim, Q.K., Ahmed, S.T. (2024). An enhanced cloud storage auditing approach using Boneh-Lynn-Shacham's signature and automatic blocker protocol. Ingé nierie des Systèmes d'Information, Vol. 29, No. 1, pp. 261-268. https://doi.org/10.18280/isi.290126
141	Kirla, J.U.N., Oruganti, B.V., Duggempudi, B.R., Kakarlapudi, V.R.R., Yalla, P.	Optimizing Fertilizer Recommendations for Banana Plant Using Feature Extraction Method and Machine Learning Classification	banana plant, feature extraction, fertilizers, machine learning techniques, plants, soil	29, 1, 269-277	https://doi.org/10.18280/isi.290127	Kirla, J.U.N., Oruganti, B.V., Duggempudi, B.R., Kakarlapudi, V.R.R., Yalla, P. (2024). Optimizing fertilizer recommendations for banana plant using feature extraction method and machine learning classification. Ingénierie des Syst èmes d'Information, Vol. 29, No. 1, pp. 269-277. https://doi.org/10.18280/isi.290127
142	Merzougui, G., Boulelouah, N., Mokhtari, A., Hebira, A.	Improving the Approval Process for Durum Wheat Grain Quality in Algeria Using Computer Vision and Machine Learning	durum wheat, quality control, variety/impurity classification, image segmentation, machine learning, hyperparameter tuning	29, 1, 279-291	https://doi.org/10.18280/isi.290128	Merzougui, G., Boulelouah, N., Mokhtari, A., Hebira, A. (2024). Improving the approval process for durum wheat grain quality in Algeria using computer vision and machine learning. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 279-291. https://doi.org/10.18280/isi.290128
143	Alzami, F., Salam, A., Rizqa, I., Irawan, C., Andono, P.N., Aqmala, D., Sartika, M.	Demand Prediction for Food and Beverage SMEs Using SARIMAX and Weather Data	demand prediction, SME, SARIMAX, VAR, food, weather data, temperature, humidity	29, 1, 293-300	https://doi.org/10.18280/isi.290129	Alzami, F., Salam, A., Rizqa, I., Irawan, C., Andono, P.N., Aqmala, D., Sartika, M. (2024). Demand prediction for food and beverage SMEs using SARIMAX and weather data. Ingé nierie des Systèmes d'Information, Vol. 29, No. 1, pp. 293-300. https://doi.org/10.18280/isi.290129
144	Khorseed, W.S., Hamad, A.H.	Inter and Intra Domain DDoS Attack Mitigation for Software Defined Network Based on Hyperledger Fabric Blockchain Technology	DDoS, attack mitigation, SDN, Hyperledger Fabric, smart contract, inter domain, intra domain	29, 1, 301-311	https://doi.org/10.18280/isi.290130	Khorseed, W.S., Hamad, A.H. (2024). Inter and intra domain DDoS attack mitigation for software defined network based on Hyperledger Fabric blockchain technology. Ingénierie des Systè mes d'Information, Vol. 29, No. 1, pp. 301-311. https://doi.org/10.18280/isi.290130
145	Khotimah, B.K., Anamisa, D.R., Kustiyahningsih, Y., Fauziah, A.N., Setiawan, E.	Enhancing Small and Medium Enterprises: A Hybrid Clustering and AHP-TOPSIS Decision Support Framework	decision support system, recommendation, SME, clustering method, AHP-TOPSIS	29, 1, 313-321	https://doi.org/10.18280/isi.290131	Khotimah, B.K., Anamisa, D.R., Kustiyahningsih, Y., Fauziah, A.N., Setiawan, E. (2024). Enhancing small and medium enterprises: A hybrid clustering and AHP-TOPSIS decision support framework. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 313-321. https://doi.org/10.18280/isi.290131
146	Ledmi, A., Ledmi, M., Souidi, M.E.H., Haouassi, H., Bardou, D.	Optimizing Task Scheduling in Cloud Computing Using Discrete Tuna Swarm Optimization	cloud computing, task scheduling, Discrete Tuna Swarm Optimization (DTSO), load balancing, performance evaluation, makespan, throughput time, average waiting time	29, 1, 323-335	https://doi.org/10.18280/isi.290132	Ledmi, A., Ledmi, M., Souidi, M.E.H., Haouassi, H., Bardou, D. (2024). Optimizing task scheduling in cloud computing using Discrete Tuna Swarm Optimization. Ingénierie des Systè mes d'Information, Vol. 29, No. 1, pp. 323-335. https://doi.org/10.18280/isi.290132
147	Ghibeche, Y., Sellam, A., Nouri, N., Khaldi, A., Harrane, A., Ghibeche, I.	Machine Learning for Forest Fire Prediction: A Case Study in North Algeria	forest fire, fire prediction system, machine learning, decision tree, random forest	29, 1, 337-346	https://doi.org/10.18280/isi.290133	Ghibeche, Y., Sellam, A., Nouri, N., Khaldi, A., Harrane, A., Ghibeche, I. (2024). Machine learning for forest fire prediction: A case study in North Algeria. Ingénierie des Systèmes d' Information, Vol. 29, No. 1, pp. 337-346. https://doi.org/10.18280/isi.290133
148	Hanon, W., Salman, M.A.	Integration of ML Techniques for Early Detection of Breast Cancer: Dimensionality Reduction Approach	Principal Component Analysis PCA, K-nearest neighbor KNN, integrate PCA and KNN DPBC, dimensionality reduction, diagnosis breast cancer DBC, Breast Cancer Wisconsin medical dataset BCW	29, 1, 347-353	https://doi.org/10.18280/isi.290134	Hanon, W., Salman, M.A. (2024). Integration of ML techniques for early detection of breast cancer: Dimensionality reduction approach. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 347-353. https://doi.org/10.18280/isi.290134
149	Sreedharan, S., Nadarajan, R.	Nesterov Accelerated Gradient Descent for Optimizing Fast Harmonic Mean Linear Discriminant Analysis	dimensionality reduction, FHLDA, Stiefel manifold, accelerated optimization, gradient descent scheme, convex function, Nesterov accelerated gradient descent	29, 1, 355-367	https://doi.org/10.18280/isi.290135	Sreedharan, S., Nadarajan, R. (2024). Nesterov accelerated gradient descent for optimizing Fast Harmonic mean linear discriminant analysis. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 355-367. https://doi.org/10.18280/isi.290135
150	Ouakasse, F., Mosaif, A., Rakrak, S.	A QoS-Gateway-Based Framework for Prioritizing Emergency Data in IoMT Applications	Internet of Medical Things (IoMT), Quality of Service (QoS), data prioritization, emergency healthcare, gateway	29, 1, 369-375	https://doi.org/10.18280/isi.290136	Ouakasse, F., Mosaif, A., Rakrak, S. (2024). A QoS-gateway-based framework for prioritizing emergency data in IoMT applications. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 369-375. https://doi.org/10.18280/isi.290136

151	Ouchra, H., Belangour, A., Erraissi, A.	Supervised Machine Learning Algorithms for Land Cover Classification in Casablanca, Morocco	supervised learning, remote sensing, satellite image classification, machine learning, google earth engine	29, 1, 377-387	https://doi.org/10.18280/isi.290137	Ouchra, H., Belangour, A., Erraissi, A. (2024). Supervised machine learning algorithms for land cover classification in Casablanca, Morocco. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 377-387. https://doi.org/10.18280/isi.290137
152	AlMotairi, R.K., Hadwan, M.	Sentiment Analysis Methods for Arabic Content on Social Media: A Systematic Review	Arabic sentiment analysis, systematic review, social media, opinion analysis, deep learning and machine learning	29, 1, 389-396	https://doi.org/10.18280/isi.290138	AlMotairi, R.K., Hadwan, M. (2024). Sentiment analysis methods for arabic content on social media: A systematic review. Ingénierie des Systèmes d'Information, Vol. 29, No. 1, pp. 389-396. https://doi.org/10.18280/isi.290138
153	Alqaan, S.E., Qamar, A.M.	Sentiment Analysis of Arabic Tweets on Online Learning During the COVID-19 Pandemic: A Machine Learning and LSTM Approach	ARABIC tweets, COVID-19, deep learning (DL), long short-term memory (LSTM), machine learning (ML), online learning, opinion mining, sentiment analysis	28, 6, 1435-1443	https://doi.org/10.18280/isi.280601	Alqaan, S.E., Qamar, A.M. (2023). Sentiment analysis of Arabic tweets on online learning during the COVID-19 pandemic: A machine learning and LSTM approach. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1435-1443. https://doi.org/10.18280/isi.280601
154	Meharunnisa, Saqlain, M., Abid, M., Awais, M., Stević, Ž.	Analysis of Software Effort Estimation by Machine Learning Techniques	estimation, machine learning, software, data-driven, linear regression, gradient boosting, random forest, root mean squared error (RMSE)	28, 6, 1445-1457	https://doi.org/10.18280/isi.280602	Meharunnisa, Saqlain, M., Abid, M., Awais, M., Stević, Ž. (2023). Analysis of software effort estimation by machine learning techniques. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1445-1457. https://doi.org/10.18280/isi.280602
155	Mahajan, A., Kumar, S., Kale, S.	Sentiment Analysis of User Reviews for "Digi Tour" and "Audio Odigos" Smart Tour Guide Applications	Smart Tour Guide app, app technology, sentiment analysis, Digi Tour app, user reviews, azure machine learning, Audio Odigos app, Indian cultural heritage	28, 6, 1459-1466	https://doi.org/10.18280/isi.280603	Mahajan, A., Kumar, S., Kale, S. (2023). Sentiment analysis of user reviews for 'Digi Tour' and 'Audio Odigos' Smart Tour Guide applications. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1459-1466. https://doi.org/10.18280/isi.280603
156	Gadde, S., Rao, G.S., Veesam, V.S., Yarlagadda, M., Patibandla, R.S.M.L.	Secure Data Sharing in Cloud Computing: A Comprehensive Survey of Two-Factor Authentication and Cryptographic Solutions	cloud computing, data sharing, two factor authentication, cryptography, cloud storage, security challenges, data privacy, access control, cloud security	28, 6, 1467-1477	https://doi.org/10.18280/isi.280604	Gadde, S., Rao, G.S., Veesam, V.S., Yarlagadda, M., Patibandla, R.S.M.L. (2023). Secure data sharing in cloud computing: A comprehensive survey of two-factor authentication and cryptographic solutions. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1467-1477. https://doi.org/10.18280/isi.280604
157	Malla, S., Sahu, P.K., Patnaik, S., Biswal, A.K., Nayak, M.	IoT-Enabled Smart Anti-Smog Towers: A Novel Approach to Urban Air Pollution Control	green house effect, smog, Anti-Smog tower, cloud storage, pollution control, Internet of Things (IoT), environmental sensing, air quality monitoring	28, 6, 1479-1493	https://doi.org/10.18280/isi.280605	Malla, S., Sahu, P.K., Patnaik, S., Biswal, A.K., Nayak, M. (2023). IoT-enabled smart anti-smog towers: A novel approach to urban air pollution control. Ingénierie des Systèmes d' Information, Vol. 28, No. 6, pp. 1479-1493. https://doi.org/10.18280/isi.280605
158	Abdullahi, H.O., Mahmud, M., Hassan, A.A., Ali, A.F.	A Bibliometric Analysis of the Evolution of IoT Applications in Smart Agriculture	bibliometric analysis, Internet of Things (IoT), smart agriculture, smarting farming, science mapping	28, 6, 1495-1504	https://doi.org/10.18280/isi.280606	Abdullahi, H.O., Mahmud, M., Hassan, A.A., Ali, A.F. (2023). A bibliometric analysis of the evolution of IoT applications in smart agriculture. Ingénierie des Systèmes d' Information, Vol. 28, No. 6, pp. 1495-1504. https://doi.org/10.18280/isi.280606
159	Hashmi, A., Nafis, M.T., Naaz, S., Nandan, D., Hussain, I.	Predictive Modelling of Glycated Hemoglobin Levels Using Machine Learning Regressors	diabetes, glycated hemoglobin, HbA1c, machine learning	28, 6, 1505-1513	https://doi.org/10.18280/isi.280607	Hashmi, A., Nafis, M.T., Naaz, S., Nandan, D., Hussain, I. (2023) Predictive modelling of glycated hemoglobin levels using machine learning regressors. Ingénierie des Systèmes d' Information, Vol. 28, No. 6, pp. 1505-1513. https://doi.org/10.18280/isi.280607
160	Rozikin, C., Buono, A., Wahjuni, S., Arif, C., Widodo.	ANOVA-Artificial Bee Colony Algorithm-Driven Feature Selection for Classifying Downy Mildew Severity in Melon Leaves	analysis of variance (ANOVA), artificial bee colony (ABC), ANOVA-ABC (AVABC) algorithm, downy mildew classification, feature selection, melon leaf disease, precision agriculture optimization	28, 6, 1515-1523	https://doi.org/10.18280/isi.280608	Rozikin, C., Buono, A., Wahjuni, S., Arif, C., Widodo (2023) ANOVA-artificial bee colony algorithm-driven feature selection for classifying downy mildew severity in melon leaves. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1515-1523. https://doi.org/10.18280/isi.280608
161	Mohammad, M.T., Mahmood, H.A., Ali, Q.I.	A Self-Powered IoT Platform with Security Mechanisms for Smart Agriculture	Internet of Things (IoT), smart irrigation system, sustainability, secured system, self-powered system	28, 6, 1515-1523	https://doi.org/10.18280/isi.280609	Mohammad, M.T., Mahmood, H.A., Ali, Q.I. (2023). A self-powered IoT platform with security mechanisms for smart agriculture. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1525-1532. https://doi.org/10.18280/isi.280609
162	Messaoudi, N., Hicham, H., Messaoud, M.T., Elkamel, H.M.	Multi-Layer Consistency Validation of IoT Systems with UML Inheritance Dynamic Diagrams via SPIN Model Checking	Büchi automata, IoT healthcare, IoT, inheritances, SPIN Model Checker, UML dynamic diagram, multi-layer UML consistency checking, model transformations	28, 6, 1533-1547	https://doi.org/10.18280/isi.280610	Messaoudi, N., Hicham, H., Messaoud, M.T., Elkamel, H.M. (2023). Multi-layer consistency validation of IoT systems with UML inheritance dynamic diagrams via SPIN model checking. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1533-1547. https://doi.org/10.18280/isi.280610
163	Kolisnychenko, T., Sefikhanova, K., Kapral, O., Karpenko, V., Sylkin, O.	Development of an Algorithm for Internet Marketing Strategy Implementation: A Case Study in the EU Hotel and Restaurant Sector	Internet marketing, information technology, innovative methods, marketing information systems, Internet of Things, hotel and restaurant business, innovative method	28, 6, 1549-1556	https://doi.org/10.18280/isi.280611	Kolisnychenko, T., Sefikhanova, K., Kapral, O., Karpenko, V., Sylkin, O. (2023). Development of an algorithm for Internet marketing strategy implementation: A case study in the EU hotel and restaurant sector. Ingénierie des Systèmes d' Information, Vol. 28, No. 6, pp. 1549-1556. https://doi.org/10.18280/isi.280611
164	Bhardwaj, V., Thakur, D., Gera, T., Sharma, V.	Enhanced Dialectal Speech Recognition in Punjabi Using Pitch-Based Acoustic Modeling	Automatic Speech Recognition (ASR), pitch, Punjabi language, speech signal processing, dialectal variations	28, 6, 1557-1563	https://doi.org/10.18280/isi.280612	Bhardwaj, V., Thakur, D., Gera, T., Sharma, V. (2023). Enhanced dialectal speech recognition in Punjabi using pitch-based acoustic modeling. Ingénierie des Systèmes d' Information, Vol. 28, No. 6, pp. 1557-1563. https://doi.org/10.18280/isi.280612
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166	Sutoyo, Marsal, A., Hamzah, M.L., Anderjovi, S., Nazaruddin, Sarbaini.	Enhancing Tourism in Riau Province through Augmented Reality and Near Field Communication-Enabled Smart Posters	Internet of Things (IoT), smart poster, Augmented Reality (AR), Near Field Communication (NFC)	28, 6, 1577-1585	https://doi.org/10.18280/isi.280614	Sutoyo, Marsal, A., Hamzah, M.L., Anderjovi, S., Nazaruddin, Sarbaini. (2023). Enhancing tourism in Riau Province through augmented reality and near field communication-enabled smart posters. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1577-1585. https://doi.org/10.18280/isi.280614
167	Prakosa, B.A., Hendrawan, A.H., Setiadi, I.H., Ritzkal, Riawan, I., Riana, F.	Implementation of a Real-Time Wi-Fi Voucher Notification System Utilizing Telegram API Bot	notification system, Wi-Fi voucher, effectiveness, telegram bot notification, wireless access network	28, 6, 1587-1596	https://doi.org/10.18280/isi.280615	Prakosa, B.A., Hendrawan, A.H., Setiadi, I.H., Ritzkal, Riawan, I., Riana, F. (2023). Implementation of a real-time Wi-Fi voucher notification system utilizing telegram API bot. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1587-1596. https://doi.org/10.18280/isi.280615
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170	Baqer, N.H., Sadiq, A.T., Ali, Z.H.	Enhancement of Sentiment Analysis in Hotel Reviews Through Latent Semantic Indexing and Convolutional Neural Networks	trip advisor, LSI, CNN, SVD, classification, standard evaluation metrics	28, 6, 1613-1618	https://doi.org/10.18280/isi.280618	Baqer, N.H., Sadiq, A.T., Ali, Z.H. (2023). Enhancement of sentiment analysis in hotel reviews through latent semantic indexing and convolutional neural networks. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1613-1618. https://doi.org/10.18280/isi.280618
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176	Sanamdikar, S.T., Patil, S.A., Patil, D.O., Borawake, M.P.	Enhanced Detection of Diabetic Retinopathy Using Ensemble Machine Learning: A Comparative Study	machine learning, ensemble learning, deep learning and retinopathy in diabetics, deep convolutional neural networks (DCNNs), Messidor dataset	28, 6, 1663-1668	https://doi.org/10.18280/isi.280624	Sanamdikar, S.T., Patil, S.A., Patil, D.O., Borawake, M.P. (2023). Enhanced detection of Diabetic Retinopathy using ensemble machine learning: A comparative study. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1663-1668. https://doi.org/10.18280/isi.280624
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178	Lee, C., Kartowisastro, I.H.	Enhancing Identity Document Classification in KYC Processes: An Evaluation of the Bag-of-Visual-Words Model and Segmentation Impact	Lee, C., Kartowisastro, I.H.	28, 6, 1679-1687	https://doi.org/10.18280/isi.280626	Lee, C., Kartowisastro, I.H. (2023). Enhancing identity document classification in KYC processes: An evaluation of the Bag-of-Visual-Words model and segmentation impact. Ingénierie des Systèmes d'Information, Vol. 28, No. 6, pp. 1679-1687. https://doi.org/10.18280/isi.280626
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183	Subhi, M.I., Al-Doori, Q., Alani, O.	Enhancing Data Communication Performance: A Comprehensive Review and Evaluation of LDPC Decoder Architectures	Error Correction Codes (ECC), Field Programmable Gate Array (FPGA), Low-Density Parity-Check codes decoding algorithms, Low-Density Parity-Check codes (encoder/decoder), Parity Check Matrix (PCM)	28, 5, 1113-1125	https://doi.org/10.18280/isi.280501	Subhi, M.I., Al-Doori, Q., Alani, O. (2023). Enhancing data communication performance: A comprehensive review and evaluation of LDPC decoder architectures. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1113-1125. https://doi.org/10.18280/isi.280501
184	Bruschetti, F.S., Guevara, J., Abeledo, M.C., Priano, D.A.	An Empirical Evaluation of Automated Configuration Tools for Software-Defined Networking: A Usability and Performance Perspective	SDN, computer networks, software-defined networking, network management, software tools, network configuration scripting, configuration management	28, 5, 1127-1134	https://doi.org/10.18280/isi.280502	Bruschetti, F.S., Guevara, J., Abeledo, M.C., Priano, D.A. (2023). An empirical evaluation of automated configuration tools for software-defined networking: A usability and performance perspective. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1127-1134. https://doi.org/10.18280/isi.280502
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186	Alhuseen, Z.A.A., Joda, F.A., Naser, M.A.	Abnormal Behavior Detection in Gait Analysis Using Convolutional Neural Networks	abnormal behavior detection, gait analysis, deep learning, feature extraction, local spatial features, Center Symmetric Local Binary Pattern (CS-LBP), Convolutional Neural Network (CNN)	28, 5, 1151-1159	https://doi.org/10.18280/isi.280504	Alhuseen, Z.A.A., Joda, F.A., Naser, M.A. (2023). Abnormal behavior detection in gait analysis using convolutional neural networks. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1151-1159. https://doi.org/10.18280/isi.280504
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188	Berbiche, N., El Alami, J.	Enhancing Anomaly-Based Intrusion Detection Systems: A Hybrid Approach Integrating Feature Selection and Bayesian Hyperparameter Optimization	Anomaly-Based Intrusion Detection System (IDS), feature selection, feature importance, Hyperparameter Optimization (HPO), Bayesian Optimization (BO), Machine Learning (ML), Extreme Gradient Boosting (XGBoost), Stochastic Gradient Descent (SGD)	28, 5, 1177-1195	https://doi.org/10.18280/isi.280506	Berbiche, N., El Alami, J. (2023). Enhancing anomaly-based Intrusion Detection Systems: A hybrid approach integrating feature selection and Bayesian Hyperparameter Optimization. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1177-1195. https://doi.org/10.18280/isi.280506
189	Herwin, H., Prasojo, L.D., Saptono, B., Dahalan, S.C.	Analyzing the Impact of Augmented Reality on Student Motivation: A Time Series Study in Elementary Education	Augmented Reality, elementary education, student motivation, quantitative analysis, trend analysis	28, 5, 1197-1203	https://doi.org/10.18280/isi.280507	Herwin, H., Prasojo, L.D., Saptono, B., Dahalan, S.C. (2023). Analyzing the impact of augmented reality on student motivation: A time series study in elementary education. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1197-1203. https://doi.org/10.18280/isi.280507
190	Widaningsih, S., Muhamad, W., Hendriyanto, R., Nugroho, H.	An ID3 Decision Tree Algorithm-Based Model for Predicting Student Performance Using Comprehensive Student Selection Data at Telkom University	student performance, decision tree, classification, Iterative Dichotomiser 3 (ID3), higher education	28, 5, 1205-1212	https://doi.org/10.18280/isi.280508	Widaningsih, S., Muhamad, W., Hendriyanto, R., Nugroho, H. (2023). An ID3 decision tree algorithm-based model for predicting student performance using comprehensive student selection data at Telkom University. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1205-1212. https://doi.org/10.18280/isi.280508
191	Abd Al-Ameer, A.A., Bhaya, W.S.	Enhanced Intrusion Detection in Software-Defined Networks Through Federated Learning and Deep Learning	artificial intelligence, federated learning, software-defined networks, deep learning, network security, privacy	28, 5, 1213-1220	https://doi.org/10.18280/isi.280509	Abd Al-Ameer, A.A., Bhaya, W.S. (2023). Enhanced intrusion detection in software-defined networks through federated learning and deep learning. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1213-1220. https://doi.org/10.18280/isi.280509
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193	Kudithipudi, S., Narisetty, N., Kancherla, G.R., Bobba, B.	Evaluating the Efficacy of Resampling Techniques in Addressing Class Imbalance for Network Intrusion Detection Systems Using Support Vector Machines	class imbalance, Network Intrusion Detection Systems, resampling methods, cloud computing, Canadian Institute for Cyber Security Intrusion Detection dataset-2017, Support Vector Machine (SVM) classifier	28, 5, 1229-1236	https://doi.org/10.18280/isi.280511	Kudithipudi, S., Narisetty, N., Kancherla, G.R., Bobba, B. (2023). Evaluating the efficacy of resampling techniques in addressing class imbalance for Network Intrusion Detection Systems using support vector machines. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1229-1236. https://doi.org/10.18280/isi.280511
194	Barlybayev, A., Sankibayev, A., Kadyr, Y., Amangeldy, N., Sabyrov, T.	Predicting Used-Vehicle Resale Value in Developing Markets: Application of Machine Learning Models to the Kazakhstan Car Market	Kazakhstan car market, used car price prediction, linear regression, decision tree regression, SVM, neural network, bagged trees	28, 5, 1237-1246	https://doi.org/10.18280/isi.280512	Barlybayev, A., Sankibayev, A., Kadyr, Y., Amangeldy, N., Sabyrov, T. (2023). Predicting used-vehicle resale value in developing markets: Application of machine learning models to the Kazakhstan car market. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1237-1246. https://doi.org/10.18280/isi.280512
195	Yadav, S., Bhardwaj, V., Thakur, D., Sharma, V.	Enhancing Robotic Process Automation Task Selection: An Integrated Approach Leveraging Process Mining and Feature Extraction	Robotic Process Automation (RPA), process mining, task selection, robotics, process discovery, task prioritization	28, 5, 1247-1254	https://doi.org/10.18280/isi.280513	Yadav, S., Bhardwaj, V., Thakur, D., Sharma, V. (2023). Enhancing robotic process automation task selection: An integrated approach leveraging process mining and feature extraction. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1247-1254. https://doi.org/10.18280/isi.280513

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197	Llanos, A.A.H., Huatangari, L.Q., Meza, J.R.Y., Monteza, A.H.	Leveraging Text Mining for Analyzing Students' Preferences in Computer Science and Language Courses	decision making, educational policy, R language, students' preferences, text mining WEKA, word cloud	28, 5, 1265-1273	https://doi.org/10.18280/isi.280515	Llanos, A.A.H., Huatangari, L.Q., Meza, J.R.Y., Monteza, A.H. (2023). Leveraging text mining for analyzing students' preferences in computer science and language courses. Ingé nierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1265-1273. https://doi.org/10.18280/isi.280515
198	Parvez, M.T., Alsuhibani, A.M., Alamri, A.H.	Educational and Cybersecurity Applications of an Arabic CAPTCHA Gamification System	Arabic language learning, CAPTCHA solving, gamification, challenge-response system, cyber awareness, question answering	28, 5, 1275-1285	https://doi.org/10.18280/isi.280516	Parvez, M.T., Alsuhibani, A.M., Alamri, A.H. (2023). Educational and cybersecurity applications of an Arabic CAPTCHA gamification system. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1275-1285. https://doi.org/10.18280/isi.280516
199	Fariz, A.A., Abouchabaka, J., Rafalia, N.	Harnessing the Power of Cloud-Based Big Data Analytics for E-Government Advancement in Morocco: A Catalyst for Development	E-government, big data egov, Morocco egov, big data analytics, cloud computing, digital government	28, 5, 1287-1298	https://doi.org/10.18280/isi.280517	Fariz, A.A., Abouchabaka, J., Rafalia, N. (2023). Harnessing the power of cloud-based big data analytics for e-government advancement in Morocco: A catalyst for development. Ingé nierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1287-1298. https://doi.org/10.18280/isi.280517
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201	Andry, J.F., Hadiyanto, Gunawan, V.	Refining the ISO 9126 Model for Enhanced Decision Support System Evaluation in the Manufacturing Industry	ISO 9126, decision support system, user acceptance testing	28, 5, 1309-1315	https://doi.org/10.18280/isi.280519	Andry, J.F., Hadiyanto, Gunawan, V. (2023). Refining the ISO 9126 model for enhanced decision support system evaluation in the manufacturing industry. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1309-1315. https://doi.org/10.18280/isi.280519
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203	Lopes, A., Prakash, K.B.	Artificial Intelligence and Machine Learning Approaches to Document Digitization in the Banking Industry: An Analysis	digitization, OCR, automation, extraction, CNN, artificial intelligence, machine learning, banking industry	28, 5, 1325-1334	https://doi.org/10.18280/isi.280521	Lopes, A., Prakash, K.B. (2023). Artificial intelligence and machine learning approaches to document digitization in the banking industry: An analysis. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1325-1334. https://doi.org/10.18280/isi.280521
204	Lubis, A.R., Lase, Y.Y., Rahman, D.A., Witarsyah, D.	Improving Spell Checker Performance for Bahasa Indonesia Using Text Preprocessing Techniques with Deep Learning Models	text preprocessing, Convolutional Neural Network (CNN), deep learning, performance, Bahasa Indonesia	28, 5, 1335-1342	https://doi.org/10.18280/isi.280522	Lubis, A.R., Lase, Y.Y., Rahman, D.A., Witarsyah, D. (2023). Improving spell checker performance for Bahasa Indonesia using text preprocessing techniques with deep learning models. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1335-1342. https://doi.org/10.18280/isi.280522
205	Al-Soufi, R.A., Mohammed, N.Y.	Exploring the Impact of Electronic Management on Mitigating Organizational Conflict: An Examination at the Northern Technical University	electronic management, e-management, administrative management, organizational conflict, Northern Technical University (NTU), administrative leaders, technology in management	28, 5, 1343-1352	https://doi.org/10.18280/isi.280523	Al-Soufi, R.A., Mohammed, N.Y. (2023). Exploring the impact of electronic management on mitigating organizational conflict: An examination at the Northern Technical University. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1343-1352. https://doi.org/10.18280/isi.280523
206	Tawfeeq, M.A.	Optimizing Cluster Head Selection in Mobile Ad Hoc Networks: A Connectivity Probability Approach Using Poisson Distribution and Residual Energy	cluster head, connectivity probability, mobile ah hoc network, network performance, network stability, poisson distribution, residual energy.	28, 5, 1353-1359	https://doi.org/10.18280/isi.280524	Tawfeeq, M.A. (2023). Optimizing cluster head selection in mobile Ad Hoc Networks: A connectivity probability approach using poisson distribution and residual energy. Ingénierie des Systèmes d'Information, Vol. 28, No. 5, pp. 1353-1359. https://doi.org/10.18280/isi.280524
207	Mbilong, P.M., Aarab, Z., Belouadha, F.Z., Kabbaj, M.I.	Enhancing Fault Detection in CNC Machinery: A Deep Learning and Genetic Algorithm Approach	industrial maintenance, long short-term memory, convolutional neural network, residual network, variational autoencoder, genetic algorithm, predictive maintenance, fault detection	28, 5, 1361-1375	https://doi.org/10.18280/isi.280525	Mbilong, P.M., Aarab, Z., Belouadha, F.Z., Kabbaj, M.I. (2023). Enhancing fault detection in CNC machinery: A deep learning and genetic algorithm approach. Ingénierie des Systè mes d'Information, Vol. 28, No. 5, pp. 1361-1375. https://doi.org/10.18280/isi.280525
208	Sanamdikar, S.T., Shelke, M.V., Rothe, J.P.	Enhanced Classification of Diabetic Retinopathy via Vessel Segmentation: A Deep Ensemble Learning Approach	diabetic retinopathy, vessel segmentation, deep ensemble learning, computer vision, DRIVE dataset, Canny operator, blood vessel segmentation	28, 5, 1377-1386	https://doi.org/10.18280/isi.280526	Sanamdikar, S.T., Shelke, M.V., Rothe, J.P. (2023). Enhanced classification of diabetic retinopathy via vessel segmentation: A deep ensemble learning approach. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1377-1386. https://doi.org/10.18280/isi.280526
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210	Sanamdikar, S.T., Shelke, M.V., Rothe, J.P.	An Advanced Hybrid Meta-Heuristic Model for Solar Power Generation Forecasting via Ensemble Deep Learning	diabetic retinopathy, vessel segmentation, deep ensemble learning, computer vision, DRIVE dataset, Canny operator, blood vessel segmentation	28, 5, 1395-1407	https://doi.org/10.18280/isi.280528	Sanamdikar, S.T., Shelke, M.V., Rothe, J.P. (2023). Enhanced classification of diabetic retinopathy via vessel segmentation: A deep ensemble learning approach. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1377-1386. https://doi.org/10.18280/isi.280526

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212	Widiantoro, A.D., Mustafid, M., Sanjaya, R.	Leveraging Latent Dirichlet Allocation for Feature Extraction in User Comments: Enhancements to User-Centered Design in Indonesian Financial Technology	Latent Dirichlet Allocation (LDA), feature extraction, Financial Technology (FinTech), User-Centered Design (UCeD), topic modelling	28, 5, 1423-1433	https://doi.org/10.18280/isi.280530	Widiantoro, A.D., Mustafid, M., Sanjaya, R. (2023). Leveraging Latent Dirichlet Allocation for feature extraction in user comments: Enhancements to User-Centered Design in Indonesian Financial Technology. Ingénierie des Systèmes d' Information, Vol. 28, No. 5, pp. 1423-1433. https://doi.org/10.18280/isi.280530
213	Herrouz, A., Djoudi, M., Degha, H.E., Boukanoun, B.	An Autonomous Multi-Agent System for Customized Scientific Literature Recommendation: A Tool for Researchers and Students	multi-agent system, ontology, personalized information filtering, recommendation system, scientific paper, search engine, usability, user interface	28, 4, 799-814	https://doi.org/10.18280/isi.280401	Herrouz, A., Djoudi, M., Degha, H.E., Boukanoun, B. (2023). An autonomous multi-agent system for customized scientific literature recommendation: A tool for researchers and students. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 799-814. https://doi.org/10.18280/isi.280401
214	Okokpujie, K., Okokpujie, I.P., Subair, R.E., Simonyan, E.O., Akingunsoye, A.V.	Designing an Adaptive Age-Invariant Face Recognition System for Enhanced Security in Smart Urban Environments	biometric, smart city, FG-NET ad, Age Invariant Face Recognition (AIFR), surveillance cameras, convolutional neutral network, data augmentation	28, 4, 815-822	https://doi.org/10.18280/isi.280402	Okokpujie, K., Okokpujie, I.P., Subair, R.E., Simonyan, E.O., Akingunsoye, A.V. (2023). Designing an adaptive Age-Invariant Face recognition system for enhanced security in smart urban environments. Ingénierie des Systèmes d' Information, Vol. 28, No. 4, pp. 815-822. https://doi.org/10.18280/isi.280402
215	Sugiharto, W.H., Susanto, H., Prasetijo, A.B.	Real-Time Water Quality Assessment via IoT: Monitoring pH, TDS, Temperature, and Turbidity	water quality assessment, Internet of Things (IoT), wireless sensor networks, integrated sensor systems	28, 4, 823-831	https://doi.org/10.18280/isi.280403	Sugiharto, W.H., Susanto, H., Prasetijo, A.B. (2023). Real-time water quality assessment via IoT: Monitoring pH, TDS, temperature, and turbidity. Ingénierie des Systèmes d' Information, Vol. 28, No. 4, pp. 823-831. https://doi.org/10.18280/isi.280403
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217	Supase, S.S., Pansare, J.R.	A Robust, Preference-Based Coordinator Election Algorithm for Distributed Systems	distributed system, peer-to-peer system, Fault-Tolerant Coordinator Election Algorithm (FTCEA), preference-based voting algorithm	28, 4, 843-851	https://doi.org/10.18280/isi.280405	Supase, S.S., Pansare, J.R. (2023). A robust, preference-based coordinator election algorithm for distributed systems. Ingé nierie des Systèmes d'Information, Vol. 28, No. 4, pp. 843-851. https://doi.org/10.18280/isi.280405
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219	Rao, B.M., Hussain, M.A.	Feature Importance Analysis for Glucose Level Detection in Type 2 Diabetes Using Machine Learning	type 2 diabetes, glucose levels detection, machine learning, physiological parameters, random forest classifier, performance metrics	28, 4, 861-867	https://doi.org/10.18280/isi.280407	Rao, B.M., Hussain, M.A. (2023). Feature importance analysis for glucose level detection in type 2 diabetes using machine learning. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 861-867. https://doi.org/10.18280/isi.280407
220	Rayavarapu, S.M., Prasanthi, T.S., Kumar, G.S., Rao, G.S., Singham, A.	Employing Generative Networks for Synthetic Phonocardiogram and Electrocardiogram Signal Creation: A Privacy-Ensured Approach to Data Augmentation in Heart Diagnostics	auscultation, data augmentation, electrocardiogram, generative networks, phonocardiogram, synthetic data generation	28, 4, 869-875	https://doi.org/10.18280/isi.280408	Rayavarapu, S.M., Prasanthi, T.S., Kumar, G.S., Rao, G.S., Singham, A. (2023). Employing generative networks for synthetic phonocardiogram and electrocardiogram signal creation: A privacy-ensured approach to data augmentation in heart diagnostics. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 869-875. https://doi.org/10.18280/isi.280408
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222	Asqolani, I.A., Setiawan, E.B.	Hybrid Deep Learning Approach and Word2Vec Feature Expansion for Cyberbullying Detection on Indonesian Twitter	cyberbullying detection, hybrid deep learning, feature expansion, Word2Vec	28, 4, 887-895	https://doi.org/10.18280/isi.280410	Asqolani, I.A., Setiawan, E.B. (2023). Hybrid deep learning approach and Word2Vec feature expansion for cyberbullying detection on Indonesian twitter. Ingénierie des Systèmes d' Information, Vol. 28, No. 4, pp. 887-895. https://doi.org/10.18280/isi.280410
223	Aza-Espinosa, M.J., Herrera-Granda, E.P., Ibarra-Rosero, M.	DeepBrucel: A Deep Learning Approach for Automated Risk Detection of Brucellosis in Cattle Farms in Ecuador	automatic brucellosis diagnosis, Neural Networks Brucellosis Diagnosis, multivariate diagnostic techniques	28, 4, 897-920	https://doi.org/10.18280/isi.280411	Aza-Espinosa, M.J., Herrera-Granda, E.P., Ibarra-Rosero, M. (2023). DeepBrucel: A deep learning approach for automated risk detection of Brucellosis in cattle farms in Ecuador. Ingé nierie des Systèmes d'Information, Vol. 28, No. 4, pp. 897-920. https://doi.org/10.18280/isi.280411
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225	Almamoori, A.A., Bhaya, W.S.	Hybrid Deep Learning Approach Utilizing RNN and LSTM for the Detection of DDoS Attacks Within the Bitcoin Ecosystem	blockchain, cryptocurrency exchange, deep learning, Recurrent Neural Network (RNN), Long Short-Term Memory (LSTM), Conditional Table Generative Adversarial Network (CTGAN)	28, 4, 931-937	https://doi.org/10.18280/isi.280413	Almamoori, A.A., Bhaya, W.S. (2023). Hybrid deep learning approach utilizing RNN and LSTM for the detection of DDoS attacks within the Bitcoin ecosystem. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 931-937. https://doi.org/10.18280/isi.280413

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227	Karyonov, M.	Accelerating Code Assembly: Exploiting Heterogeneous Computing Architectures for Optimization	computer technology, software development, informatics, digital technologies, typical block diagram, programming	28, 4, 951-958	https://doi.org/10.18280/isi.280415	Karyonov, M. (2023). Accelerating code assembly: Exploiting heterogeneous computing architectures for optimization. Ingé nierie des Systèmes d'Information, Vol. 28, No. 4, pp. 951-958. https://doi.org/10.18280/isi.280415
228	Khan, M.A.A., Kaidi, H.M.	A Comprehensive Survey of Machine Learning Techniques in Next-Generation Wireless Networks and the Internet of Things	Internet of Things (IoT), Machine Learning (ML), quality of service, deep learning, reinforcement learning, 5G and beyond, next-generation wireless networks	28, 4, 959-967	https://doi.org/10.18280/isi.280416	Khan, M.A.A., Kaidi, H.M. (2023). A comprehensive survey of machine learning techniques in next-generation wireless networks and the Internet of Things. Ingénierie des Systèmes d 'Information, Vol. 28, No. 4, pp. 959-967. https://doi.org/10.18280/isi.280416
229	Alazzam, F.A.F., Shakhatreh, H.J.M., Gharaibeh, Z.I.Y., Didiuk, I., Sylkin, O.	Developing an Information Model for E-Commerce Platforms: A Study on Modern Socio-Economic Systems in the Context of Global Digitalization and Legal Compliance	information, E-Commerce, platform, model, modern systems, digitalization, data analysis, user experience	28, 4, 969-974	https://doi.org/10.18280/isi.280417	Alazzam, F.A.F., Shakhatreh, H.J.M., Gharaibeh, Z.I.Y., Didiuk, I., Sylkin, O. (2023). Developing an information model for E-Commerce platforms: A study on modern socio-economic systems in the context of global digitalization and legal compliance. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 969-974. https://doi.org/10.18280/isi.280417
230	AlTuraif, R.K., AlSanad, D.S., AlSharifi, N.F., Almuaili, A.A.	Exploring the Catalysts and Components of Gamification in Enterprise: A Systematic Literature Review	literature review, gamification, employee engagement, customer experience, gamification drivers, gamification elements	28, 4, 975-992	https://doi.org/10.18280/isi.280418	AlTuraif, R.K., AlSanad, D.S., AlSharifi, N.F., Almuaili, A.A. (2023). Exploring the catalysts and components of gamification in enterprise: A systematic literature review. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 975-992. https://doi.org/10.18280/isi.280418
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232	Yassen, M.S., Abdulrazzq, R.A., Mohammed, A.B.	Employing Hybrid ANOVA-RFE with Machine and Deep Learning Models for Enhanced IoT and IIoT Attack Detection and Classification	attack detection, Internet of Things (IoT) security, feature selection, machine learning, deep learning	28, 4, 1003-1012	https://doi.org/10.18280/isi.280420	Yassen, M.S., Abdulrazzq, R.A., Mohammed, A.B. (2023). Employing hybrid ANOVA-RFE with machine and deep learning models for enhanced IoT and IIoT attack detection and classification. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 1003-1012. https://doi.org/10.18280/isi.280420
233	Veesam, V.S., Ravichandran, S., Gatram, R.M.B.	Deep Learning-Based Prediction of Age and Gender from Facial Images	automatic gender classification, computer vision, artificial intelligence, Deep Convolutional Neural Network (DCNN), face recognition, deep learning	28, 4, 1013-1018	https://doi.org/10.18280/isi.280421	Veesam, V.S., Ravichandran, S., Gatram, R.M.B. (2023). Deep learning-based prediction of age and gender from facial images. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 1013-1018. https://doi.org/10.18280/isi.280421
234	Shyam, D.N.M., Hussain, M.A.	A Naive Bayes-Driven Mechanism for Mitigating Packet-Dropping Attacks in Autonomous Wireless Networks	packet-dropping, malicious attacks, system faults, Intrusion Detection Systems (IDS), MANETs, and naive bayes	28, 4, 1019-1027	https://doi.org/10.18280/isi.280422	Shyam, D.N.M., Hussain, M.A. (2023). A naive bayes-driven mechanism for mitigating packet-dropping attacks in autonomous wireless networks. Ingénierie des Systèmes d' Information, Vol. 28, No. 4, pp. 1019-1027. https://doi.org/10.18280/isi.280422
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242	Imaduddin, H., Kusumaningtias, L.A., A'la, F.Y.	Application of LSTM and GloVe Word Embedding for Hate Speech Detection in Indonesian Twitter Data	deep learning, GloVe, hate speech, Long Short-Term Memory (LSTM), Natural Language Processing (NLP), twitter	28, 4, 1107-1112	https://doi.org/10.18280/isi.280430	Imaduddin, H., Kusumaningtias, L.A., A'la, F.Y. (2023). Application of LSTM and GloVe word embedding for hate speech detection in Indonesian twitter data. Ingénierie des Systèmes d'Information, Vol. 28, No. 4, pp. 1107-1112. https://doi.org/10.18280/isi.280430
243	Esoso, A.A., Ikumapayi, O.M., Jen, T.C., Akinlabi, E.T.	Exploring Machine Learning Tools for Enhancing Additive Manufacturing: A Comparative Study	additive manufacturing, machine learning, artificial intelligence, algorithms, computer vision, 3D modeling	28, 3, 535-544	https://doi.org/10.18280/isi.280301	Esoso, A.A., Ikumapayi, O.M., Jen, T.C., Akinlabi, E.T. (2023). Exploring machine learning tools for enhancing additive manufacturing: A comparative study. Ingénierie des Systèmes d'Information, Vol. 28, No. 3, pp. 535-544. https://doi.org/10.18280/isi.280301
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258	Muhamad, W., Nugroho, H., Widaningsih, S., Hendriyanto, R.	Designing a Public API-Based Order Delivery Service System for the Food and Beverage Industry	public API, delivery service, F&B industry, service system	28, 3, 669-675	https://doi.org/10.18280/isi.280316	Muhamad, W., Nugroho, H., Widaningsih, S., Hendriyanto, R. (2023). Designing a public API-based order delivery service system for the food and beverage industry. Ingénierie des Systèmes d'Information, Vol. 28, No. 3, pp. 669-675. https://doi.org/10.18280/isi.280316
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265	Senaï, B., Rahal, S.A.H., Khiat, S.	An Optimized Hybrid Model of Convolutional Neural Networks and eXtreme Gradient Boosting for Enhanced Mammographic Tumor Classification	image mining, medical image classification, machine learning, Xgboost, Convolutional Neural Networks, Softmax, mammographic	28, 3, 725-736	https://doi.org/10.18280/isi.280323	Senaï, B., Rahal, S.A.H., Khiat, S. (2023). An optimized hybrid model of Convolutional Neural Networks and eXtreme gradient boosting for enhanced mammographic tumor classification. Ingénierie des Systèmes d'Information, Vol. 28, No. 3, pp. 725-736. https://doi.org/10.18280/isi.280323
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274	Boutazart, Y., Zealouk, O., Satori, H., Affane Moundounga, A.R., Satori, K.	Clustering for Moroccan Prefecture-Provinces and World Countries Based COVID-19 Dataset	clustering technique, COVID-19, K-means algorithm, elbow and silhouette methods, dataset analysis	28, 2, 275-282	https://doi.org/10.18280/isi.280202	Boutazart, Y., Zealouk, O., Satori, H., Affane Moundounga, A.R., Satori, K. (2023). Clustering for Moroccan prefecture-provinces and world countries based COVID-19 dataset. Ingé nierie des Systèmes d'Information, Vol. 28, No. 2, pp. 275-282. https://doi.org/10.18280/isi.280202
275	Saidi, I., Mahammed, N., Klouche, B., Bencherif, K.	An Overview on Related Searches Recommendation	recommender systems, entities recommendation, web search engines, knowledge graphs, users' context	28, 2, 283-289	https://doi.org/10.18280/isi.280203	Saidi, I., Mahammed, N., Klouche, B., Bencherif, K. (2023). An overview on related searches recommendation. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 283-289. https://doi.org/10.18280/isi.280203
276	Siaho, D., Ghislain, P.K., Lambert, K.T., Ernest, K.K., Souleymane, O., Emmanuel, A.N.	Modeling Artificial Neural Network of Insect's Proliferation During Cocoa Beans Storage	cocoa bean, grain, artificial neural network, insects, Akaike information criterion	28, 2, 291-298	https://doi.org/10.18280/isi.280204	Siaho, D., Ghislain, P.K., Lambert, K.T., Ernest, K.K., Souleymane, O., Emmanuel, A.N. (2023). Modeling artificial neural network of insect's proliferation during cocoa beans storage. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 291-298. https://doi.org/10.18280/isi.280204
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283	Khurana, R., Bhatia, M., Battan, M., Das, N.N., Memoria, M.	A Proposed Framework for Identity Verification in Passport Management Using Model Scaling and Semantic Similarity	efficient net, face detection, image similarity, neural networks, passport management	28, 2, 357-365	https://doi.org/10.18280/isi.280211	Khurana, R., Bhatia, M., Battan, M., Das, N.N., Memoria, M. (2023). A proposed framework for identity verification in passport management using model scaling and semantic similarity. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 357-365. https://doi.org/10.18280/isi.280211
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287	Wahul, R.M., Sonawane, S., Kale, A.P., Lambture, B.D., Dudhedia, M.A.	Smart Farm: Agriculture System for Farmers Using IoT	CNN algorithm, IoT in agriculture, Smart Farm, THR (Temperature, Humidity, Rainfall)	28, 2, 401-407	https://doi.org/10.18280/isi.280215	Wahul, R.M., Sonawane, S., Kale, A.P., Lambture, B.D., Dudhedia, M.A. (2023). Smart Farm: Agriculture system for farmers using IoT. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 401-407. https://doi.org/10.18280/isi.280215
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289	Bangare, P.S., Patil, K.P.	Internet of Things Based Secured Data Transmission Protocol for Agriculture Application	communication system, IOT, security, MQTT, agriculture, SMO, AES	28, 2, 419-424	https://doi.org/10.18280/isi.280217	Bangare, P.S., Patil, K.P. (2023). Internet of things based secured data transmission protocol for agriculture application. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 419-424. https://doi.org/10.18280/isi.280217
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292	Yergaliyev, A., Sharipbay, A., Baibulekova, L.	Spontaneous Speech and Its Features Are Taken into Account When Creating Recognition Programs	alternative transcription, multilingual corpus, linguistic support of information systems, automatic recognition systems, speech identification, corpus linguistics	28, 2, 443-450	https://doi.org/10.18280/isi.280220	Yergaliyev, A., Sharipbay, A., Baibulekova, L. (2023). Spontaneous speech and its features are taken into account when creating recognition programs. Ingénierie des Systèmes d 'Information, Vol. 28, No. 2, pp. 443-450. https://doi.org/10.18280/isi.280220
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294	Mummigatti, K.V.K., Chandramouli, S.M., Ramachandra, D.H.	Deep Neural Network System Using Ontology to Recommend Organic Fertilizers for a Sustainable Agriculture	ontology, deep learning, knowledge base, recommender system	28, 2, 461-467	https://doi.org/10.18280/isi.280222	Mummigatti, K.V.K., Chandramouli, S.M., Ramachandra, D.H. (2023). Deep neural network system using ontology to recommend organic fertilizers for a sustainable agriculture. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 461-467. https://doi.org/10.18280/isi.280222
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296	Khare, V., Kumari, S.	Detection of Brain Tumor Based on Multimodality Brain Image Fusion Using Dual Branch Convolution Neural Network	computed tomography scan (CT-scan), magnetic resonance imaging (MRI), brain tumor, convolutional neural network (CNN), fusion	28, 2, 475-482	https://doi.org/10.18280/isi.280224	Khare, V., Kumari, S. (2023). Detection of brain tumor based on multimodality brain image fusion using dual branch convolution neural network. Ingénierie des Systèmes d' Information, Vol. 28, No. 2, pp. 475-482. https://doi.org/10.18280/isi.280224
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299	Kadhum, O.I., Hamad, A.H.	Performance Evaluation of Multi-Organization E-Government Based on Hyperledger Fabric Blockchain Platform	blockchain, hyperledger fabric, hyperledger caliper, performance evaluation, e-government, multi-organization	28, 2, 499-507	https://doi.org/10.18280/isi.280227	Kadhum, O.I., Hamad, A.H. (2023). Performance evaluation of multi-organization e-government based on hyperledger fabric blockchain platform. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 499-507. https://doi.org/10.18280/isi.280227
300	Killi, C.B.R., Balakrishnan, N., Rao, C.S.	Deep Fake Image Classification Using VGG-19 Model	fake images, CNN, VGG19, deep learning	28, 2, 509-515	https://doi.org/10.18280/isi.280228	Killi, C.B.R., Balakrishnan, N., Rao, C.S. (2023). Deep fake image classification using VGG-19 model. Ingénierie des Systèmes d'Information, Vol. 28, No. 2, pp. 509-515. https://doi.org/10.18280/isi.280228

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305	Lakshmi, D.S., Divya, A., Sreedevi, E., Kolagani, R., Gottumukkala, P., Muddana, A.	A Study and Analysis on Pedestrian Detection and Tracking Through Rear-View Images	TRIPP, rear-view, pedestrian detection and tracking, false alarm rate	28, 1, 23-30	https://doi.org/10.18280/isi.280103	Lakshmi, D.S., Divya, A., Sreedevi, E., Kolagani, R., Gottumukkala, P., Muddana, A. (2023). A study and analysis on pedestrian detection and tracking through rear-view images. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 23-30. https://doi.org/10.18280/isi.280103
306	Gbame, S.G., Brou, M.K., Saha, B.K.	Efficient Criteria Based Method for Selection of Relevant Ontologies in Transport Domain	criteria, relevant ontology, ontological layer, smart city, transport	28, 1, 31-40	https://doi.org/10.18280/isi.280104	Gbame, S.G., Brou, M.K., Saha, B.K. (2023). Efficient criteria based method for selection of relevant ontologies in transport domain. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 31-40. https://doi.org/10.18280/isi.280104
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308	Beghriche, A.	An Adaptive Secure and Efficient Bio-Inspired Routing Protocol for Effective Cooperation in FANETs	Artificial Immune System, dendritic cells, flying ad hoc networks, penguin search optimization algorithm, routing protocol, security threats, unmanned aerial vehicle	28, 1, 49-66	https://doi.org/10.18280/isi.280106	Beghriche, A. (2023). An adaptive secure and efficient bio-inspired routing protocol for effective cooperation in FANETs. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 49-66. https://doi.org/10.18280/isi.280106
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312	Behaz, A., Moumen, H., Nouari, W.	Trace Analysis of Educational Videos to Identify the Groups of Learners with Similar Profiles	learning analytics, learner profile, educational data mining, clustering trace analysis	28, 1, 97-104	https://doi.org/10.18280/isi.280110	Behaz, A., Moumen, H., Nouari, W. (2023). Trace analysis of educational videos to identify the groups of learners with similar profiles. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 97-104. https://doi.org/10.18280/isi.280110
313	Varadharajan, A.A., Vaddi, S.R., Ramasubramanian, K.G.	Improved Diverse Gaussian HMM and SVM ML Technique for Sensor Fault Detection and Classification in Air Quality Monitoring System	air quality, fault classification, fault detection, gaussian hidden markov model, internet of things, out of bounds, spike fault, support vector machine	28, 1, 105-111	https://doi.org/10.18280/isi.280111	Varadharajan, A.A., Vaddi, S.R., Ramasubramanian, K.G. (2023). Improved diverse gaussian HMM and SVM ML technique for sensor fault detection and classification in air quality monitoring system. Ingénierie des Systèmes d' Information, Vol. 28, No. 1, pp. 105-111. https://doi.org/10.18280/isi.280111
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317	Rakesh, U., Ramya, V., Murugan, V.S.	Classification, Collection, and Notification of Medical Waste Using IoT Based Smart Dust Bins	biomedical waste, sensing unit and classifier, IR sensor, GOM, smart waste bin	28, 1, 149-154	https://doi.org/10.18280/isi.280115	Rakesh, U., Ramya, V., Murugan, V.S. (2023). Classification, collection, and notification of medical waste using IoT based smart dust bins. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 149-154. https://doi.org/10.18280/isi.280115
318	Sudrajat, D., Purnamasari, A.I., Dikananda, A.R., Kurnia, D.A., Efendi, D.M.	Hybrid Learning Predictions on Learning Quality Using Multiple Linear Regression	hybrid learning, multiple linear regression, RMSE, COVID-19	28, 1, 155-160	https://doi.org/10.18280/isi.280116	Sudrajat, D., Purnamasari, A.I., Dikananda, A.R., Kurnia, D.A., Efendi, D.M. (2023). Hybrid learning predictions on learning quality using multiple linear regression. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 155-160. https://doi.org/10.18280/isi.280116
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321	Ratha, A.K., Barpanda, N.K., Sethy, P.K., Behera, S.K.	Papaya Fruit Maturity Estimation Using Wavelet and ConvNET	Papaya grading, deep feature, parallel feature fusion, VGG16, SVM, Wavelet	28, 1, 175-181	https://doi.org/10.18280/isi.280119	Ratha, A.K., Barpanda, N.K., Sethy, P.K., Behera, S.K. (2023). Papaya fruit maturity estimation using Wavelet and ConvNET. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 175-181. https://doi.org/10.18280/isi.280119
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326	Sabri, B.T., Jawad, W.K.	Discretion-Preserving with Data Mining Drive Distribution Scheme with a Universal Social Grid Web for Vans Using Vast Data	ridesharing, global social network, auto pooling, direction, criminal file	28, 1, 211-216	https://doi.org/10.18280/isi.280124	Sabri, B.T., Jawad, W.K. (2023). Discretion-preserving with data mining drive distribution scheme with a universal social grid web for vans using vast data. Ingénierie des Systèmes d' Information, Vol. 28, No. 1, pp. 211-216. https://doi.org/10.18280/isi.280124
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328	Deore, S.P.	Enriching Song Recommendation Through Facial Expression Using Deep Learning	convolutional neural network, expression, mood, decision making, mood identification, song recommendation	28, 1, 225-229	https://doi.org/10.18280/isi.280126	Deore, S.P. (2023). Enriching song recommendation through facial expression using deep learning. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 225-229. https://doi.org/10.18280/isi.280126
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331	Narayanrao, P.V., Surya Kumari, P.L.	Regularized CNN Based Model for Analyzing, Predicting Depression and Handling Overfitting	CNN, depression, dropout, NHANES, overfitting, PHQ-9	28, 1, 247-254	https://doi.org/10.18280/isi.280129	Narayanrao, P.V., Surya Kumari, P.L. (2023). Regularized CNN based model for analyzing, predicting depression and handling overfitting. Ingénierie des Systèmes d'Information, Vol. 28, No. 1, pp. 247-254. https://doi.org/10.18280/isi.280129
332	Khare, V.	Automatic Detection of Exudates in Retinal Image Using Statistical Techniques	diabetic retinopathy, optic disc, GLCM, GLPCM, GLRLM features extraction, and BPNN classifier	28, 1, 255-261	https://doi.org/10.18280/isi.280130	Khare, V. (2023). Automatic detection of exudates in retinal image using statistical techniques. Ingénierie des Systèmes d' Information, Vol. 28, No. 1, pp. 255-261. https://doi.org/10.18280/isi.280130
333	Belayadi, Y., Khababa, A., Attia, A., Maza, S.	An Effective Method Based on Bi-Clustering and Association Rules for User Activity Analysis in Location-Based Social Network	bi-clustering, location-based social network, association rules, Apriori algorithm, Gowalla dataset	27, 6, 855-864	https://doi.org/10.18280/isi.270601	Belayadi, Y., Khababa, A., Attia, A., Maza, S. (2022). An effective method based on bi-clustering and association rules for user activity analysis in location-based social network. Ingé nierie des Systèmes d'Information, Vol. 27, No. 6, pp. 855-864. https://doi.org/10.18280/isi.270601
334	Mohammed, N.Y., Omar, H.A., Aziz, A.A.	Contributions of Leadership Styles to Digital Transformation-An Exploratory Study of the Opinions of a Sample of Administrative Leaders at the Northern Technical University	reciprocal leader, transformational leader, democratic leader, digital transformation, digital strategies, governance, digital technology	27, 6, 865-873	https://doi.org/10.18280/isi.270602	Mohammed, N.Y., Omar, H.A., Aziz, A.A. (2022). Contributions of leadership styles to digital transformation-an exploratory study of the opinions of a sample of administrative leaders at the Northern Technical University. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 865-873. https://doi.org/10.18280/isi.270602
335	Riad, M.A., El-Ghandour, O.M., El-Haleem, A.M.A.	Fairness Oriented H-NOMA Devices Association and Pairing in HCN Slicing Using Cooperation Games	5G, RAN slicing, HCN, eMBB, uRLLC, H-NOMA, NBS, matching game	27, 6, 875-885	https://doi.org/10.18280/isi.270603	Riad, M.A., El-Ghandour, O.M., El-Haleem, A.M.A. (2022). Fairness oriented H-NOMA devices association and pairing in HCN slicing using cooperation games. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 875-885. https://doi.org/10.18280/isi.270603
336	Yudhana, A., Umar, R., Fawait, A.B.	Decision Making Using the MABAC Method to Determine the Leading Small and Medium Industry Centers in Yogyakarta	SMIs, MABAC, decision making, criteria, confusion matrix	27, 6, 887-893	https://doi.org/10.18280/isi.270604	Yudhana, A., Umar, R., Fawait, A.B. (2022). Decision making using the MABAC method to determine the leading small and medium industry centers in Yogyakarta. Ingénierie des Systè mes d'Information, Vol. 27, No. 6, pp. 887-893. https://doi.org/10.18280/isi.270604
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338	Riadi, I., Herman, Siregar, N.H.	Mobile Forensic Analysis of Signal Messenger Application on Android using Digital Forensic Research Workshop (DFRWS) Framework	android, COVID-19 vaccine, cybercrime, DFRWS framework, hoax, mobile forensic, signal messenger	27, 6, 903-913	https://doi.org/10.18280/isi.270606	Riadi, I., Herman, Siregar, N.H. (2022). Mobile forensic analysis of signal messenger application on android using Digital Forensic Research Workshop (DFRWS) framework. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 903-913. https://doi.org/10.18280/isi.270606
339	Abdul, A.M., Mohammad, A.A.K., Sastry, M.K., Bankapalli, J.	Brute Force Attack on Distributed data Hiding in the Multi-Cloud Storage Environment More Diminutive than the Exponential Computations	security, steganography, brute force attack, multi-cloud storage environment, cover media, encoding	27, 6, 915-921	https://doi.org/10.18280/isi.270607	Abdul, A.M., Mohammad, A.A.K., Sastry, M.K., Bankapalli, J. (2022). Brute force attack on distributed data hiding in the multi-cloud storage environment more diminutive than the exponential computations. Ingénierie des Systèmes d' Information, Vol. 27, No. 6, pp. 915-921. https://doi.org/10.18280/isi.270607
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343	El Aissi, M.E.M., Benjelloun, S., Lakhrissi, Y., El Haj Ben Ali, S.	Big Data Enabling Fish Farming Data-Driven Strategy	big data, data lake, data driven strategy, digital transformation, fish farming, data value chain	27, 6, 949-956	https://doi.org/10.18280/isi.270611	El Aissi, M.E.M., Benjelloun, S., Lakhrissi, Y., El Haj Ben Ali, S. (2022). Big data enabling fish farming data-driven strategy. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 949-956. https://doi.org/10.18280/isi.270611
344	Fadel, N., Kareem, E.I.A.	Detecting Hand Gestures Using Machine Learning Techniques	image segmentation, HSV color space, human-computer interaction, American sign language, hand gesture detection, clustering, KNN, K mean clustering, canny filter, Otsu'S segmentation, thresholds segmentation, FCM	27, 6, 957-965	https://doi.org/10.18280/isi.270612	Fadel, N., Kareem, E.I.A. (2022). Detecting hand gestures using machine learning techniques. Ingénierie des Systèmes d' Information, Vol. 27, No. 6, pp. 957-965. https://doi.org/10.18280/isi.270612
345	Raju, M.S.N., Rao, B.S.	Classification of Colon and Lung Cancer Through Analysis of Histopathology Images Using Deep Learning Models	histopathology images, visualization techniques, deep learning models, image processing techniques	27, 6, 967-971	https://doi.org/10.18280/isi.270613	Raju, M.S.N., Rao, B.S. (2022). Classification of colon and lung cancer through analysis of histopathology images using deep learning models. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 967-971. https://doi.org/10.18280/isi.270613

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347	Pang, X.R., Pang, Y.	Evaluation Model and Influencing Factors of Consumer Satisfaction with E-Commerce Platform	e-commerce platform, consumer satisfaction, evaluation model, artificial neural network	27, 6, 983-990	https://doi.org/10.18280/isi.270615	Pang, X.R., Pang, Y. (2022). Evaluation model and influencing factors of consumer satisfaction with e-commerce platform. Ing énierie des Systèmes d'Information, Vol. 27, No. 6, pp. 983-990. https://doi.org/10.18280/isi.270615
348	Singh, M., Khare, V.	Detection of Parkinson's Disease Using the Spiral Diagram and Convolutional Neural Network	spiral drawing, Parkinson's disease convolution neural network	27, 6, 991-997	https://doi.org/10.18280/isi.270616	Singh, M., Khare, V. (2022). Detection of Parkinson's disease using the spiral diagram and convolutional neural network. Ing énierie des Systèmes d'Information, Vol. 27, No. 6, pp. 991-997. https://doi.org/10.18280/isi.270616
349	P. G., V.K.R., M. M.	Automatic Modulation Classification Using a Support Vector Machine-Based Pattern Recognition Algorithm	modulation recognition, support vectors, kernel function, linear and non-linear kernels, cumulants	27, 6, 999-1007	https://doi.org/10.18280/isi.270617	P. G., V.K.R., M. M. (2022). Automatic modulation classification using a support vector machine-based pattern recognition algorithm. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 999-1007. https://doi.org/10.18280/isi.270617
350	Abood, A.M., Nasser, A.R., Al-Khazraji, H.	Predictive Maintenance of Electromechanical Systems Using Deep Learning Algorithms: Review	deep learning, electromechanical system, motor, predictive maintenance, deep learning	27, 6, 1009-1017	https://doi.org/10.18280/isi.270618	Abood, A.M., Nasser, A.R., Al-Khazraji, H. (2022). Predictive maintenance of electromechanical systems using deep learning algorithms: Review. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 1009-1017. https://doi.org/10.18280/isi.270618
351	Chenoori, R.K., Kavuri, R.	GrFrauder: A Novel Unsupervised Clustering Algorithm for Identification Group Spam Reviewers	opinion spamming, spammer groups, spam identification, spam indicators, group spam indicators	27, 6, 1019-1027	https://doi.org/10.18280/isi.270619	Chenoori, R.K., Kavuri, R. (2022). GrFrauder: A novel unsupervised clustering algorithm for identification group spam reviewers. Ingénierie des systèmes d information, Vol. 27, No. 6, pp. 1019-1027. https://doi.org/10.18280/isi.270619
352	Siddamsetti, S., Srivenkatesh, M.	Implementation of Blockchain with Machine Learning Intrusion Detection System for Defending IoT Botnet and Cloud Networks	blockchain, cloud systems, machine learning, IoT botnets, intrusion detection system	27, 6, 1029-1038	https://doi.org/10.18280/isi.270620	Siddamsetti, S., Srivenkatesh, M. (2022). Implementation of blockchain with machine learning intrusion detection system for defending IoT botnet and cloud networks. Ingénierie des Systèmes d'Information, Vol. 27, No. 6, pp. 1029-1038. https://doi.org/10.18280/isi.270620
353	Obaid, M.A., Awad, A.S., Khaleel, I.S.	An Optimal Cluster Head Selection with Trusted Path Routing and Classification of Intrusion in WSN Employing CHLNNet	intrusion detection, neural network, classification, cluster head, trust management, optimal route	27, 5, 685-693	https://doi.org/10.18280/isi.270501	Obaid, M.A., Awad, A.S., Khaleel, I.S. (2022). An optimal cluster head selection with trusted path routing and classification of intrusion in WSN employing CHLNNet. Ingé nierie des Systèmes d'Information, Vol. 27, No. 5, pp. 685-693. https://doi.org/10.18280/isi.270501
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355	Mokhtar, R., Othman, S.H., Ramlan, R.	Modelling Quality Assurance System Process Using UML Notation	UML, metamodelling, quality assurance, programme accreditation, higher education	27, 5, 705-716	https://doi.org/10.18280/isi.270503	Mokhtar, R., Othman, S.H., Ramlan, R. (2022). Modelling quality assurance system process using UML notation. Ingé nierie des Systèmes d'Information, Vol. 27, No. 5, pp. 705-716. https://doi.org/10.18280/isi.270503
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358	Saeed, S.H., Hadi, S.M., Hamad, A.H.	Iraqi Paradigm E-Voting System Based on Hyperledger Fabric Blockchain Platform	E-voting, blockchain, hyperledger fabric, hyperledger caliper, performance evaluation	27, 5, 737-745	https://doi.org/10.18280/isi.270506	Saeed, S.H., Hadi, S.M., Hamad, A.H. (2022). Iraqi paradigm E-voting system based on hyperledger fabric blockchain platform. Ingénierie des Systèmes d'Information, Vol. 27, No. 5, pp. 737-745. https://doi.org/10.18280/isi.270506
359	Hioual, O., Hemam, S.M., Hioual, O., Maif, L.	A Hybrid Approach for Web Pages Classification	keyword extraction, machine learning, supervised machine learning approach, TF-IDF, web page classification	27, 5, 747-755	https://doi.org/10.18280/isi.270507	Hioual, O., Hemam, S.M., Hioual, O., Maif, L. (2022). A hybrid approach for web pages classification. Ingénierie des Systèmes d'Information, Vol. 27, No. 5, pp. 747-755. https://doi.org/10.18280/isi.270507
360	Yamparala, R., Pandian, S.N.S.	A Neighbor Trust Weight Based Cryptography for Multi Key Distribution for Improving Quality of Service in MANETS	routing information, multi key generation, identity with trust level cryptography, key generation, key distribution, network security, trusted node, network performance	27, 5, 757-765	https://doi.org/10.18280/isi.270508	Yamparala, R., Pandian, S.N.S. (2022). A neighbor trust weight based cryptography for multi key distribution for improving quality of service in MANETS. Ingénierie des Systè mes d'Information, Vol. 27, No. 5, pp. 757-765. https://doi.org/10.18280/isi.270508

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363	Shawly, T., Alsheikhy, A.A., Said, Y.F., Lahza, H.	An Effective Approach for Smart Parking Management	smart management system, smart cities, efficient method, image segmentation, digital services, automatic services	27, 5, 783-789	https://doi.org/10.18280/isi.270511	Shawly, T., Alsheikhy, A.A., Said, Y.F., Lahza, H. (2022). An effective approach for smart parking management. Ingénierie des Systèmes d'Information, Vol. 27, No. 5, pp. 783-789. https://doi.org/10.18280/isi.270511
364	Balne, S., Manike, C.	An Exploration: Alzheimer's Disease Classification Based on Spectral Matching of Shape Features	Alzheimer's disease, generative model, VAE, GAN, classification, spectral matching	27, 5, 791-797	https://doi.org/10.18280/isi.270512	Balne, S., Manike, C. (2022). An exploration: Alzheimer's disease classification based on spectral matching of shape features. Ingénierie des Systèmes d'Information, Vol. 27, No. 5, pp. 791-797. https://doi.org/10.18280/isi.270512
365	Yemelyanov, V., Nikonenko, U., Sytnyk, Y., Okhrimenko, I., Shulga, A.	A Model for Countering the Information and Technical Threats of Intellectual Capital Management of Innovation-Oriented Systems in the Engineering Sector	intellectual capital, engineering, innovation, systems, model	27, 5, 799-806	https://doi.org/10.18280/isi.270513	Yemelyanov, V., Nikonenko, U., Sytnyk, Y., Okhrimenko, I., Shulga, A. (2022). A model for countering the information and technical threats of intellectual capital management of innovation-oriented systems in the engineering sector. Ingé nierie des Systèmes d'Information, Vol. 27, No. 5, pp. 799-806. https://doi.org/10.18280/isi.270513
366	Lasmika, A., Kumaresan, M.	A Smart Car Parking System Based on IoT with Gray Wolf Optimization-Probability Correlated Neural Network Recognition Methods	smart car parking system, Internet of Things (IoT), recognition and classification, Anisotropic Diffusion Gaussian Filtering, Grey Level-Co-Occurrence Matrix, Probability Correlated Neural Network (PCNN)	27, 5, 807-814	https://doi.org/10.18280/isi.270514	Lasmika, A., Kumaresan, M. (2022). A smart car parking system based on IoT with Gray Wolf Optimization-probability correlated neural network recognition methods. Ingénierie des Systèmes d'Information, Vol. 27, No. 5, pp. 807-814. https://doi.org/10.18280/isi.270514
367	Kuyoro, A.O., Ogunyolu, O.A., Ayanwola, T.G., Ayankoya, F.Y.	Dynamic Effectiveness of Random Forest Algorithm in Financial Credit Risk Management for Improving Output Accuracy and Loan Classification Prediction	credit scoring, decision tree, default, feature selection, forecasting, random forest, loan	27, 5, 815-821	https://doi.org/10.18280/isi.270515	Kuyoro, A.O., Ogunyolu, O.A., Ayanwola, T.G., Ayankoya, F.Y. (2022). Dynamic effectiveness of random forest algorithm in financial credit risk management for improving output accuracy and loan classification prediction. Ingénierie des Syst èmes d'Information, Vol. 27, No. 5, pp. 815-821. https://doi.org/10.18280/isi.270515
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371	Kale, A.P., Sonawane, S., Wahul, R.M., Dudhedia, M.A.	Improved Genetic Optimized Feature Selection for Online Sequential Extreme Learning Machine	genetic algorithm, online sequential extreme learning machine, pattern classification problem, feature selection problem, random search strategy	27, 5, 843-848	https://doi.org/10.18280/isi.270519	Kale, A.P., Sonawane, S., Wahul, R.M., Dudhedia, M.A. (2022). Improved genetic optimized feature selection for online sequential extreme learning machine. Ingénierie des Systèmes d'Information, Vol. 27, No. 5, pp. 843-848. https://doi.org/10.18280/isi.270519
372	Vanjire, S.K., Patil, S.B.	A Novel Method for Breakdown Prediction of Vehicle Clutch Using Multiple Linear Regression	vehicle clutch status, multiple linear regression, vehicle prognostic	27, 5, 849-854	https://doi.org/10.18280/isi.270520	Vanjire, S.K., Patil, S.B. (2022). A novel method for breakdown prediction of vehicle clutch using multiple linear regression. Ingénierie des Systèmes d'Information, Vol. 27, No. 5, pp. 849-854. https://doi.org/10.18280/isi.270520
373	Danladi, M.S., Baykara, M.	Design and Implementation of Temperature and Humidity Monitoring System Using LPWAN Technology	data transmission, internet of things, long-range, LoRaWAN, LPWAN, temperature and humidity monitoring	27, 4, 521-529	https://doi.org/10.18280/isi.270401	Danladi, M.S., Baykara, M. (2022). Design and implementation of temperature and humidity monitoring system using LPWAN technology. Ingénierie des Systèmes d' Information, Vol. 27, No. 4, pp. 521-529. https://doi.org/10.18280/isi.270401
374	Liouane, O., Femmam, S., Bakir, T., Abdelali, A.B.	Cascade Machines Learning Process for Node Localization in Large-Scale Wireless Sensor Networks	wireless sensors network, localization, machine learning, deep extreme learning machine	27, 4, 531-537	https://doi.org/10.18280/isi.270402	Liouane, O., Femmam, S., Bakir, T., Abdelali, A.B. (2022). Cascade machines learning process for node localization in large-scale wireless sensor networks. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 531-537. https://doi.org/10.18280/isi.270402
375	Singh, N., Verma, G., Khare, V.	Accurate Power Estimation Identity for DSP Blocks Targeted to FPGAs	FIR, IP, DSP, power, FPGA, RTL	27, 4, 539-548	https://doi.org/10.18280/isi.270403	Singh, N., Verma, G., Khare, V. (2022). Accurate power estimation identity for DSP blocks targeted to FPGAs. Ingé nierie des Systèmes d'Information, Vol. 27, No. 4, pp. 539-548. https://doi.org/10.18280/isi.270403

376	Zaitar, Y.	Analyzing the Contribution of ERP Systems to Improving the Performance of Organizations	ERP, IT impacts, value chain, competitive structure, performance	27, 4, 549-556	https://doi.org/10.18280/isi.270404	Zaitar, Y. (2022). Analyzing the contribution of ERP systems to improving the performance of organizations. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 549-556. https://doi.org/10.18280/isi.270404
377	Rahate, G., Chopade, N.	Realistic Vertical Handoff Predictive Trigger Thresholding in Heterogeneous Networks	vertical handover, heterogeneous networks, MIH, IEEE 802.21, NS-2	27, 4, 557-563	https://doi.org/10.18280/isi.270405	Rahate, G., Chopade, N. (2022). Realistic vertical handoff predictive trigger thresholding in heterogeneous networks. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 557-563. https://doi.org/10.18280/isi.270405
378	Saitong, P.	Designing, Developing, and Efficiency Evaluation of a Smartphone Application for Blood Donation	application for blood donation, smartphone, prototype, efficiency evaluation	27, 4, 565-576	https://doi.org/10.18280/isi.270406	Saitong, P. (2022). Designing, developing, and efficiency evaluation of a smartphone application for blood donation. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 565-576. https://doi.org/10.18280/isi.270406
379	Alao, O.D., Priscilla, E.A., Amanze, R.C., Kuyoro, S.O., Adebayo, A.O.	User-Centered/User Experience Uc/Ux Design Thinking Approach for Designing a University Information Management System	user experience, user-centered design, design thinking, usability testing and user interface design	27, 4, 577-590	https://doi.org/10.18280/isi.270407	Alao, O.D., Priscilla, E.A., Amanze, R.C., Kuyoro, S.O., Adebayo, A.O. (2022). User-centered/user experience Uc/Ux design thinking approach for designing a university information management system. Ingénierie des Systèmes d' Information, Vol. 27, No. 4, pp. 577-590. https://doi.org/10.18280/isi.270407
380	Patra, A., Behera, S.K., Barpanda, N.K., Sethy, P.K.	Effect of Microscopy Magnification Towards Grading of Breast Invasive Carcinoma: An Experimental Analysis on Deep Learning and Traditional Machine Learning Methods	breast invasive carcinoma, microscopy magnification, breast cancer, deep learning	27, 4, 591-596	https://doi.org/10.18280/isi.270408	Patra, A., Behera, S.K., Barpanda, N.K., Sethy, P.K. (2022). Effect of microscopy magnification towards grading of breast invasive carcinoma: An experimental analysis on deep learning and traditional machine learning methods. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 591-596. https://doi.org/10.18280/isi.270408
381	Basysyar, F.M., Dikananda, A.R., Kurnia, D.A.	Prediction of Bank Customer Potential Using Creative Marketing Based on Exploratory Data Analysis and Decision Tree Algorithm	decision tree, best trashold determination, classification, creative marketing, Python 3	27, 4, 597-604	https://doi.org/10.18280/isi.270409	Basysyar, F.M., Dikananda, A.R., Kurnia, D.A. (2022). Prediction of bank customer potential using creative marketing based on exploratory data analysis and decision tree algorithm. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 597-604. https://doi.org/10.18280/isi.270409
382	Kakulla, S., Malladi, S.	Sybil Attack Detection in VANET Using Machine Learning Approach	sybil attack, Vehicular Ad-hoc Network (VANET), network security, network simulator	27, 4, 605-611	https://doi.org/10.18280/isi.270410	Kakulla, S., Malladi, S. (2022). Sybil attack detection in VANET using machine learning approach. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 605-611. https://doi.org/10.18280/isi.270410
383	Zhavoronok, A. Popelo, O., Shchur, R., Ostrovska, N., Kordzaia, N.	The Role of Digital Technologies in the Transformation of Regional Models of Households' Financial Behavior in the Conditions of the National Innovative Economy Development	innovative economy, national economy, financial behavior of households, digitalization, digital technologies, regional model of financial behavior	27, 4, 613-620	https://doi.org/10.18280/isi.270411	Zhavoronok, A. Popelo, O., Shchur, R., Ostrovska, N., Kordzaia, N. (2022). The role of digital technologies in the transformation of regional models of households' financial behavior in the conditions of the national innovative economy development. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 613-620. https://doi.org/10.18280/isi.270411
384	Gaykar, R.S., Khanaa, V., Joshi, S.D.	A Hybrid Supervised Learning Approach for Detection and Mitigation of Job Failure with Virtual Machines in Distributed Environments	hybrid machine learning, virtual machine, job failure, detection and mitigation, load balancing	27, 4, 621-627	https://doi.org/10.18280/isi.270412	Gaykar, R.S., Khanaa, V., Joshi, S.D. (2022). A hybrid supervised learning approach for detection and mitigation of job failure with virtual machines in distributed environments. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 621-627. https://doi.org/10.18280/isi.270412
385	Minor, K.A., Kartowisastro, I.H.	Automatic Music Transcription Using Fourier Transform for Monophonic and Polyphonic Audio File	musical notation, music transcription, note value detection, Fourier transform	27, 4, 629-635	https://doi.org/10.18280/isi.270413	Minor, K.A., Kartowisastro, I.H. (2022). Automatic music transcription using Fourier Transform for monophonic and polyphonic audio file. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 629-635. https://doi.org/10.18280/isi.270413
386	Salankar, P., Avasthi, V., Pasricha, A.	Analysis and Validation of Lightweight Authentication Algorithm	IoT, CoAP, DTLS, lightweight mutual authentication, ROT 18, validation, simulation	27, 4, 637-643	https://doi.org/10.18280/isi.270414	Salankar, P., Avasthi, V., Pasricha, A. (2022). Analysis and validation of lightweight authentication algorithm. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 637-643. https://doi.org/10.18280/isi.270414
387	Hidayat, M.T., Rahim, S.S., Parumo, S., A'bas, N.N., Sani, M.A.M, Aziz, H.A.	Designing a Two - Dimensional Animation for Verbal Apraxia Therapy for Children with Verbal Apraxia of Speech	childhood apraxia of speech, verbal dyspraxia, speech and language disorder, 2D animation, visual animation treatment	27, 4, 645-651	https://doi.org/10.18280/isi.270415	Hidayat, M.T., Rahim, S.S., Parumo, S., A'bas, N.N., Sani, M.A.M, Aziz, H.A. (2022). Designing a two - dimensional animation for verbal apraxia therapy for children with verbal apraxia of speech. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 645-651. https://doi.org/10.18280/isi.270415
388	Prakash, S.J., Chetty, M.S.R., Aravapalli, J.	Swarm Based Optimization for Image Dehazing from Noise Filtering Perspective	de-hazing, HRNFP, bat algorithm, noise filtering	27, 4, 653-658	https://doi.org/10.18280/isi.270416	Prakash, S.J., Chetty, M.S.R., Aravapalli, J. (2022). Swarm based optimization for image dehazing from noise filtering perspective. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 653-658. https://doi.org/10.18280/isi.270416
389	Budiarti, M., Ritonga, M., Rahmawati, Yasmadi, Julhadi, Zulmuqim.	Padlet as a LMS Platform in Arabic Learning in Higher Education	e-learning, Padlet, LMS, Arabic language teaching	27, 4, 659-664	https://doi.org/10.18280/isi.270417	Budiarti, M., Ritonga, M., Rahmawati, Yasmadi, Julhadi, Zulmuqim. (2022). Padlet as a LMS platform in Arabic learning in higher education. Ingénierie des Systèmes d' Information, Vol. 27, No. 4, pp. 659-664. https://doi.org/10.18280/isi.270417
390	Velicheti, S., Prudhivi, M.R.	Design of Log Periodic Dipole Array with FEM and FDTD Based Analysis for GSM, PCS, Industry Standard Medical and Wi-Fi Communication Applications	LPDA, HFSS, medical application	27, 4, 665-671	https://doi.org/10.18280/isi.270418	Velicheti, S., Prudhivi, M.R. (2022). Design of log periodic dipole array with FEM and FDTD based analysis for GSM, PCS, industry standard medical and Wi-Fi communication applications. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 665-671. https://doi.org/10.18280/isi.270418

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392	Shelke, R., Vanjale, S.	Recursive LSTM for the Classification of Named Entity Recognition for Hindi Language	NER, Hindi language, BiLSTM, ML	27, 4, 679-684	https://doi.org/10.18280/isi.270420	Shelke, R., Vanjale, S. (2022). Recursive LSTM for the classification of named entity recognition for Hindi language. Ingénierie des Systèmes d'Information, Vol. 27, No. 4, pp. 679-684. https://doi.org/10.18280/isi.270420
393	Johnson, G.Y.E., Adepo, J., Kamagate, B.H., Oumtanaga, S.	Inference Control in Aggregation Query Processing Based on Supervised Learning Models	data security, inference control, supervised learning, aggregation queries, data warehouses	27, 3, 357-368	https://doi.org/10.18280/isi.270301	Johnson, G.Y.E., Adepo, J., Kamagate, B.H., Oumtanaga, S. (2022). Inference control in aggregation query processing based on supervised learning models. Ingénierie des Systèmes d' Information, Vol. 27, No. 3, pp. 357-368. https://doi.org/10.18280/isi.270301
394	Rizal, A., Handzah, V.A.P., Kusuma, P.D.	Heart Sounds Classification Using Short-Time Fourier Transform and Gray Level Difference Method	grey-level difference matrix, short-time Fourier transform, auscultation, classification	27, 3, 369-376	https://doi.org/10.18280/isi.270302	Rizal, A., Handzah, V.A.P., Kusuma, P.D. (2022). Heart sounds classification using short-time Fourier transform and gray level difference method. Ingénierie des Systèmes d' Information, Vol. 27, No. 3, pp. 369-376. https://doi.org/10.18280/isi.270302
395	Foughali, A., Kitouni, I., Benmerzoug, D.	ODMR-IoT: Outliers Detection Based Multipath Routing Protocol for Internet of Things (IoT)	IoT, contextual outlier detection, clustering, NS3	27, 3, 377-385	https://doi.org/10.18280/isi.270303	Foughali, A., Kitouni, I., Benmerzoug, D. (2022). ODMR-IoT: Outliers detection based multipath routing protocol for Internet of Things (IoT). Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 377-385. https://doi.org/10.18280/isi.270303
396	Afifi, S., Santoso, H.B., Hasani, L.M.	Investigating Students' Online Self-Regulated Learning Skills and Their E-Learning Experience in a Prophetic Communication Course	learning experiences, learning strategies, online learning, prophetic communication, self-regulated learning	27, 3, 387-397	https://doi.org/10.18280/isi.270304	Afifi, S., Santoso, H.B., Hasani, L.M. (2022). Investigating students' online self-regulated learning skills and their e-learning experience in a prophetic communication course. Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 387-397. https://doi.org/10.18280/isi.270304
397	Saeed, R.S., Oleiwi, B.K.	A Survey of Deep Learning Applications for COVID-19 Detection Techniques Based on Medical Images	Chest X-Ray, CT-Scan, convolutional neural networks, COVID-19, deep learning, disease detection, medical applications, medical images	27, 3, 399-408	https://doi.org/10.18280/isi.270305	Saeed, R.S., Oleiwi, B.K. (2022). A survey of deep learning applications for COVID-19 detection techniques based on medical images. Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 399-408. https://doi.org/10.18280/isi.270305
398	Pongsatitpat, B., Prathepha, K., Obma, J., Sa-Ngiamvibool, W.	The Automatic Brain Tumor Segmentation Based on MRI Using Optimal Morphology Thresholding Methods	brain tumors, threshold, morphology, segmentation, MRI images	27, 3, 409-414	https://doi.org/10.18280/isi.270306	Pongsatitpat, B., Prathepha, K., Obma, J., Sa-Ngiamvibool, W. (2022). The automatic brain tumor segmentation based on MRI using optimal morphology thresholding methods. Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 409-414. https://doi.org/10.18280/isi.270306
399	Ahmed, B.S., Benbouzid, S., Nibouche, F.	Design and Implementation of Smart Glasses with ISMS and Risk Management Functionalities for a Technical Operator	smart glasses, information security system (ISMS), maintenance, risk analysis, functional analysis, design	27, 3, 415-423	https://doi.org/10.18280/isi.270307	Ahmed, B.S., Benbouzid, S., Nibouche, F. (2022). Design and implementation of smart glasses with ISMS and risk management functionalities for a technical operator. Ingénierie des Systèmes d'Informatio, Vol. 27, No. 3, pp. 415-423. https://doi.org/10.18280/isi.270307
400	Roy, R., Rao, G.A.	A Framework for an Efficient Recommendation System Using Time and Fairness Constraint Based Web Usage Mining Technique	web usage mining, clustering, constraints, fairness, cost, recommendation system	27, 3, 425-431	https://doi.org/10.18280/isi.270308	Roy, R., Rao, G.A. (2022). A framework for an efficient recommendation system using time and fairness constraint based web usage mining technique. Ingénierie des Systèmes d' Informatio, Vol. 27, No. 3, pp. 425-431. https://doi.org/10.18280/isi.270308
401	Chaiwachiragompol, A., Suwannata, N.	The Study of Learning System for Infant Cry Classification Using Discrete Wavelet Transform and Extreme Machine Learning	discrete wavelet transform, learning machine, infant cry, classification, feature extraction	27, 3, 433-440	https://doi.org/10.18280/isi.270309	Chaiwachiragompol, A., Suwannata, N. (2022). The study of learning system for infant cry classification using discrete wavelet transform and extreme machine learning. Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 433-440. https://doi.org/10.18280/isi.270309
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403	Ajaegbu, O., Ajaegbu, C., Quilling, R.	Nigeria EndSARS Protest: False Information Mitigation Hybrid Model	fake news, false information, media, protest, social media	27, 3, 447-455	https://doi.org/10.18280/isi.270311	Ajaegbu, O., Ajaegbu, C., Quilling, R. (2022). Nigeria EndSARS protest: False information mitigation hybrid model. Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 447-455. https://doi.org/10.18280/isi.270311
404	Zaitar, Y.	Design of a Balanced Model for Evaluating the Outcomes of ERP Projects	ERP, IT impacts, evaluation model, balanced scorecard, performance	27, 3, 457-462	https://doi.org/10.18280/isi.270312	Zaitar, Y. (2022). Design of a balanced model for evaluating the outcomes of ERP projects. Ingénierie des Systèmes d' Information, Vol. 27, No. 3, pp. 457-462. https://doi.org/10.18280/isi.270312
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407	El Mettiti, A., Oumsis, M.	A Stacked Autoencoder and Multilayer Perceptrons for mmWave Beamforming Prediction	6G networks, beamforming, artificial intelligence, deep learning, autoencoders, millimeter-wave	27, 3, 479-485	https://doi.org/10.18280/isi.270315	El Mettiti, A., Oumsis, M. (2022). A stacked autoencoder and multilayer perceptrons for mmWave beamforming prediction. Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 479-485. https://doi.org/10.18280/isi.270315
408	Thottathyl, H., Pavan, K.K.	Differential Evolution Model for Identification of Most Influenced Gene in Brest Cancer Data	microarray data, clustering, unsupervised learning, unlabeled data, gene expression	27, 3, 487-493	https://doi.org/10.18280/isi.270316	Thottathyl, H., Pavan, K.K. (2022). Differential evolution model for identification of most influenced gene in Brest cancer data. Ingénierie des Systèmes d'Information, Vol. 27, No. 3, pp. 487-493. https://doi.org/10.18280/isi.270316
409	Gusnina, M., Wiharto, Salamah, U.	Student Performance Prediction in Sebelas Maret University Based on the Random Forest Algorithm	random forest, classification, information gain, student academic performance, support vector machine	27, 3, 495-501	https://doi.org/10.18280/isi.270317	Gusnina, M., Wiharto, Salamah, U. (2022). Student performance prediction in Sebelas Maret University based on the random forest algorithm. Ingénierie des Systèmes d' Information, Vol. 27, No. 3, pp. 495-501. https://doi.org/10.18280/isi.270317
410	Alharbi, L.M., Qamar, A.M.	Arabic Sentiment Analysis of Eateries' Reviews Using Deep Learning	sentiment analysis, machine learning, deep learning	27, 3, 503-508	https://doi.org/10.18280/isi.270318	Alharbi, L.M., Qamar, A.M. (2022). Arabic sentiment analysis of eateries' reviews using deep learning. Ingénierie des Systè mes d'Information, Vol. 27, No. 3, pp. 503-508. https://doi.org/10.18280/isi.270318
411	Daggubati, S.P., Kasukurthi, V.R., PVGD, P.R.	Cryptography and Reference Sequence Based DNA/RNA Sequence Compression Algorithms	CryptoCompress, RefCompress, DNA compression, reference DNA, cryptographic hash function	27, 3, 509-514	https://doi.org/10.18280/isi.270319	Daggubati, S.P., Kasukurthi, V.R., PVGD, P.R. (2022). Cryptography and reference sequence based DNA/RNA sequence compression algorithms. Ingénierie des Systèmes d' Information, Vol. 27, No. 3, pp. 509-514. https://doi.org/10.18280/isi.270319
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413	Sainuddin, S., Subali, B., Jailani, Elvira, M.	The Development and Validation Prospective Mathematics Teachers Holistic Assessment Tools	holistic assessment, prospective mathematics teacher, construct validity, EFA, CFA	27, 2, 171-184	https://doi.org/10.18280/isi.270201	Sainuddin, S., Subali, B., Jailani, Elvira, M. (2022). The development and validation prospective mathematics teachers holistic assessment tools. Ingénierie des Systèmes d' Informatio, Vol. 27, No. 2, pp. 171-184. https://doi.org/10.18280/isi.270201
414	Chakraoui, M., Mouhni, N., Elkalay, A., Nemiche, M.	Deep Negative Effects of Misleading Information about COVID-19 on Populations Through Twitter	COVID-19, sentiment analysis, misinformation, social networks, rumors about COVID-19	27, 2, 185-192	https://doi.org/10.18280/isi.270202	Chakraoui, M., Mouhni, N., Elkalay, A., Nemiche, M. (2022). Deep negative effects of misleading information about COVID-19 on populations through twitter. Ingénierie des Systèmes d' Information, Vol. 27, No. 2,. pp. 185-192. https://doi.org/10.18280/isi.270202
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418	Azeez, N.D., Mohammed, N.Y.	Factors Influencing Adoption of Mobile Health Monitoring System: Extending UTAUT2 with Trust	mobile health monitoring services, AUTAUT2, trust, structure equation modeling (SEM)	27, 2, 223-232	https://doi.org/10.18280/isi.270206	Azeez, N.D., Mohammed, N.Y. (2022). Factors influencing adoption of mobile health monitoring system: Extending UTAUT2 with trust. Ingénierie des Systèmes d'Informatio, Vol. 27, No. 2, pp. 223-232. https://doi.org/10.18280/isi.270206
419	Gayal, B.S., Patil, S.R.	Detection and Localization of Abnormal Events for Smart Surveillance	vision only system, multi-model system, deep convolutional neural network (DCNN), bi-directional prediction model, GWO based deep CNN, SMO based deep CNN	27, 2, 233-241	https://doi.org/10.18280/isi.270207	Gayal, B.S., Patil, S.R. (2022). Detection and localization of abnormal events for smart surveillance. Ingénierie des Systè mes d'Information, Vol. 27, No. 2, pp. 233-241. https://doi.org/10.18280/isi.270207
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424	Rajyalakshmi, C., Rao, K.R.M., Rao, R.R.	A Novel Architecture Implementation Using Multi Scale Shared Residual Network from Remote Sensing Images for Extracting Water Bodies	multi-scale shared residual network (MSSResNet), convolutional block attention module (CBAM), satellite imagery	27, 2, 285-291	https://doi.org/10.18280/isi.270212	Rajyalakshmi, C., Rao, K.R.M., Rao, R.R. (2022). A novel architecture implementation using multi scale shared residual network from remote sensing images for extracting water bodies. Ingénierie des Systèmes d'Information, Vol. 27, No. 2, pp. 285-291. https://doi.org/10.18280/isi.270212
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428	Mou, S.X., Zhang, S., Chen, J.W., Zhai, H.Y., Zhang, Y.D.	A Deep Learning-Based Grouped Teaching Strategy for Experimental Training	deep learning, student grouping, experimental training	27, 2, 321-326	https://doi.org/10.18280/isi.270216	Mou, S.X., Zhang, S., Chen, J.W., Zhai, H.Y., Zhang, Y.D. (2022). A deep learning-based grouped teaching strategy for experimental training. Ingénierie des Systèmes d'Information, Vol. 27, No. 2, pp. 321-326. https://doi.org/10.18280/isi.270216
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432	Gao, J., Ismail, N., Gao, Y.J.	Computer Big Data Analysis and Predictive Maintenance Based on Deep Learning	deep learning, computer big data, predictive maintenance, self-adaptively adjusted sampling, parallel processing, Convolutional Neural Network (CNN)	27, 2, 349-355	https://doi.org/10.18280/isi.270220	Gao, J., Ismail, N., Gao, Y.J. (2022). Computer big data analysis and predictive maintenance based on deep learning. Ingénierie des Systèmes d'Information, Vol. 27, No. 2, pp. 349-355. https://doi.org/10.18280/isi.270220
433	El Mettiti, A., Oumsis, M.	A Survey on 6G Networks: Vision, Requirements, Architecture, Technologies and Challenges	6G networks, terahertz communication, artificial intelligence, internet of things, 6G requirements	27, 1, 1-10	https://doi.org/10.18280/isi.270101	El Mettiti, A., Oumsis, M. (2022). A survey on 6G networks: Vision, requirements, architecture, technologies and challenges. Ingénierie des Systèmes d'Information, Vol. 27, No. 1, pp. 1-10. https://doi.org/10.18280/isi.270101
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435	Herrera-Granda, E.P., Lorente-Leyva, L.L., Yambay, J., Aranguren, J., Ibarra, M., Peña, J.	Controller Modeling of a Quadrotor	space states, controller modeling, quadrotor, trajectory tracking	27, 1, 21-28	https://doi.org/10.18280/isi.270103	Herrera-Granda, E.P., Lorente-Leyva, L.L., Yambay, J., Aranguren, J., Ibarra, M., Peña, J. (2022). Controller modeling of a quadrotor. Ingénierie des Systèmes d'Information, Vol. 27, No. 1, pp. 21-28. https://doi.org/10.18280/isi.270103

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448	Abdulkareem, A.B.	Transmission Control Protocol Analysis Using NS3	TCP, active queue management, network simulator, NS-3, NS-2, end to end delays	27, 1, 135-141	https://doi.org/10.18280/isi.270116	Abdulkareem, A.B. (2022). Transmission control protocol analysis using NS3. Ingénierie des Systèmes d'Information, Vol. 27, No. 1, pp. 135-141. https://doi.org/10.18280/isi.270116
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452	Challa, R.K., Rao, K.S.	Resource Based Attacks Security Using RPL Protocol in Internet of Things	RPL, IoT, resource-based attacks, security, allied parent	27, 1, 165-170	https://doi.org/10.18280/isi.270120	Challa, R.K., Rao, K.S. (2022). Resource based attacks security using RPL protocol in Internet of things. Ingénierie des Systèmes d'Information, Vol. 27, No. 1, pp. 165-170. https://doi.org/10.18280/isi.270120
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454	Anandarao, S., Chellasamy, S.H.	Detection of Hot Topic in Tweets Using Modified Density Peak Clustering	NLTK, TF-IDF vector model, density peak clustering, cosine similarity	26, 6, 523-531	https://doi.org/10.18280/isi.260602	Anandarao, S., Chellasamy, S.H. (2021). Detection of hot topic in tweets using modified density peak clustering. Ingénierie des Systèmes d'Information, Vol. 26, No. 6, pp. 523-531. https://doi.org/10.18280/isi.260602
455	Boonsivanon, K., Sa-Ngiamvibool, W.	A SIFT Description Approach for Non-Uniform Illumination and Other Invariants	keypoint description, matching, image moment, SIFT, invariants	26, 6, 533-539	https://doi.org/10.18280/isi.260603	Boonsivanon, K., Sa-Ngiamvibool, W. (2021). A SIFT description approach for non-uniform illumination and other invariants. Ingénierie des Systèmes d'Information, Vol. 26, No. 6, pp. 533-539. https://doi.org/10.18280/isi.260603
456	Wiharto, Suryani, E., Setyawan, S.	Framework Two-Tier Feature Selection on the Intelligence System Model for Detecting Coronary Heart Disease	coronary artery disease, two-tier feature selection, information gain, fast correlation-based filter	26, 6, 541-547	https://doi.org/10.18280/isi.260604	Wiharto, Suryani, E., Setyawan, S. (2021). Framework two-tier feature selection on the intelligence system model for detecting coronary heart disease. Ingénierie des Systèmes d'Information, Vol. 26, No. 6, pp. 541-547. https://doi.org/10.18280/isi.260604
457	Srinivasan, V	Detection of Black Hole Attack Using Honeypot Agent-Based Scheme with Deep Learning Technique on MANET	blackhole attack, deep learning, honeypots agents, internet of things, intrusion detection systems	26, 6, 549-557	https://doi.org/10.18280/isi.260605	Srinivasan, V. (2021). Detection of black hole attack using honeypot agent-based scheme with deep learning technique on MANET. Ingénierie des Systèmes d'Information, Vol. 26, No. 6, pp. 549-557. https://doi.org/10.18280/isi.260605
458	Phijik, B., Rao, C.V.G.	Pragmatic Security-Aware Cross-Layer Design for Wireless Networks from Vampire Attacks	cross layer design, wireless networks, vampire attack, carousal and stretch attacks	26, 6, 559-567	https://doi.org/10.18280/isi.260606	Phijik, B., Rao, C.V.G. (2021). Pragmatic security-aware cross-layer design for wireless networks from vampire attacks. Ingénierie des Systèmes d'Information, Vol. 26, No. 6, pp. 559-567. https://doi.org/10.18280/isi.260606
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464	Shrivas, A.K., Dewangan, A.K., Ghosh, S.M.	Robust Text Classifier for Classification of Spam E-Mail Documents with Feature Selection Technique	spam e-mail, classification, preprocessing, random forest (RF), feature selection technique (FST)	26, 5, 437-444	https://doi.org/10.18280/isi.260502	Shrivas, A.K., Dewangan, A.K., Ghosh, S.M. (2021). Robust text classifier for classification of spam e-mail documents with feature selection technique. Ingénierie des Systèmes d' Information, Vol. 26, No. 5, pp. 437-444. https://doi.org/10.18280/isi.260502
465	Aziz, A., Setyawan, B.W., Saddhono, K.	Using Expert System Application to Diagnose Online Game Addiction in Junior High School Students: Case Study in Five Big City in Indonesia	expert system application, diagnosis, online game addiction, junior high school students, big city in Indonesia	26, 5, 445-452	https://doi.org/10.18280/isi.260503	Aziz, A., Setyawan, B.W., Saddhono, K. (2021). Using expert system application to diagnose online game addiction in junior high school students: Case study in five big city in Indonesia. Ingénierie des Systèmes d'Information, Vol. 26, No. 5, pp. 445-452. https://doi.org/10.18280/isi.260503

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470	Challa, R., Rao, K.S.	Hybrid Approach for Detection of Objects from Images Using Fisher Vector and PSO Based CNN	cnvolutional neural networks (CNN), fisher vectors (FV), PSO, object detection, deep learning, image processing	26, 5, 483-489	https://doi.org/10.18280/isi.260508	Challa, R., Rao, K.S. (2021). Hybrid approach for detection of objects from images using fisher vector and PSO based CNN. Ingénierie des Systèmes d'Information, Vol. 26, No. 5, pp. 483-489. https://doi.org/10.18280/isi.260508
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473	Tridalestari, F.A., Prasetyo, H.N., Wikusna, W.	How to Use Design Thinking on Trash Bank Process Modeling?	nformation system, design thinking, trash bank, requirements analysis, qualitative method	26, 5, 507-513	https://doi.org/10.18280/isi.260511	Tridalestari, F.A., Prasetyo, H.N., Wikusna, W. (2021). How to use design thinking on trash bank process modeling? Ingé nierie des Systèmes d'Information, Vol. 26, No. 5, pp. 507-513. https://doi.org/10.18280/isi.260511
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475	Ambildhuke, G.M., Banik, B.G.	Transfer Learning Approach - An Efficient Method to Predict Rainfall Based on Ground-Based Cloud Images	rainfall prediction, ground-based cloud images, image classification, deep neural network, convolution neural network, transfer learning	26, 4, 345-356	https://doi.org/10.18280/isi.260402	Ambildhuke, G.M., Banik, B.G. (2021). Transfer learning approach - An efficient method to predict rainfall based on ground-based cloud images. Ingénierie des Systèmes d' Information, Vol. 26, No. 4, pp. 345-356. https://doi.org/10.18280/isi.260402
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487	Shivaprasad, S., Sadanandam, M.	Optimized Features Extraction from Spectral and Temporal Features for Identifying the Telugu Dialects by Using GMM and HMM	MFCC, ZCR, PCA, telugu language, Telangana, Costa Andhra, Rayalaseema, optimal features	26, 3, 275-283	https://doi.org/10.18280/isi.260304	Shivaprasad, S., Sadanandam, M. (2021). Optimized features extraction from spectral and temporal features for identifying the Telugu dialects by using GMM and HMM. Ingénierie des Systèmes d'Information, Vol. 26, No. 3, pp. 275-283. https://doi.org/10.18280/isi.260304
488	Devarakonda, N., Kavitha, D., Kamarajugadda, R.	Escape the Traffic Congestion Using Brainstorming Optimization Algorithm and Density Peak Clustering	brainstorming optimization algorithm (BSO), density peak clustering (DPC), TF-IDF, Twitter API, density peaks	26, 3, 285-293	https://doi.org/10.18280/isi.260305	Devarakonda, N., Kavitha, D., Kamarajugadda, R. (2021). Escape the traffic congestion using brainstorming optimization algorithm and density peak clustering. Ingénierie des Systèmes d'Information, Vol. 26, No. 3, pp. 285-293. https://doi.org/10.18280/isi.260305
489	Touahria, I.E., Khababa, A.	A Component Based Framework to Enable Medical Devices Communication	medical device, integrated clinical environment, software, component based system, safety, heterogeneity	26, 3, 295-302	https://doi.org/10.18280/isi.260306	Touahria, I.E., Khababa, A. (2021). A component based framework to enable medical devices communication. Ingé nierie des Systèmes d'Information, Vol. 26, No. 3, pp. 295-302. https://doi.org/10.18280/isi.260306
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493	Rao, K.S., Sridhar, M.	A Tabu Search Algorithm for General Threshold Visual Cryptography Schemes	visual cryptography schemes (VCSs), visual secret sharing (VSS), pixels, images; shadows, contrast, probabilistic VSS (ProbVSS), tabu search (TS)	26, 3, 329-335	https://doi.org/10.18280/isi.260310	Rao, K.S., Sridhar, M. (2021). A tabu search algorithm for general threshold visual cryptography schemes. Ingénierie des Systèmes d'Information, Vol. 26, No. 3, pp. 329-335. https://doi.org/10.18280/isi.260310
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495	Najafabadi, M.K., Mohamed, A., Nair, M.A.B., Tabibian, S.M.	An Effective Collaborative User Model Using Hybrid Clustering Recommendation Methods	recommendation system, fuzzy clustering, collaborative filtering, sparsity	26, 2, 151-158	https://doi.org/10.18280/isi.260202	Najafabadi, M.K., Mohamed, A., Nair, M.A.B., Tabibian, S.M. (2021). An effective collaborative user model using hybrid clustering recommendation methods. Ingénierie des Syst èmes d'Information, Vol. 26, No. 2, pp. 151-158. https://doi.org/10.18280/isi.260202

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498	Kumar, D.G., Ganesh, A., Bhoopal, N., Saravanan, S., Prameela, M., Dsnmrao, Kasireddy, I.	Evolutionary Algorithms for Real Time Engineering Problems: A Comprehensive Review	optimization techniques, meta-heuristic algorithms, hybrid optimization techniques, Evolutionary Computation (EVC)	26, 2, 179-190	https://doi.org/10.18280/isi.260205	Kumar, D.G., Ganesh, A., Bhoopal, N., Saravanan, S., Prameela, M., Dsnmrao, Kasireddy, I. (2021). Evolutionary algorithms for real time engineering problems: A comprehensive review. Ingénierie des Systèmes d'Information, Vol. 26, No. 2, pp. 179-190. https://doi.org/10.18280/isi.260205
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500	Kathi, M.G., Shaik, J.H.	An Optimised Allotment and Tracking Using Django and Opencv	computer vision, Opencv, tracking, face detection, face recognition	26, 2, 201-209	https://doi.org/10.18280/isi.260207	Kathi, M.G., Shaik, J.H. (2021). An optimised allotment and tracking using Django and Opencv. Ingénierie des Systèmes d' Information, Vol. 26, No. 2, pp. 201-209. https://doi.org/10.18280/isi.260207
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510	Daoudi, S., Zouaoui, C.M.A., El-Mezouar, M.C., Taleb, N.	Parallelization of the K-Means++ Clustering Algorithm	clustering, K-means clustering, K-means++, GPGPU, OpenCL, parallel K-means++, streaming SIMD extension (SSE)	26, 1, 59-66	https://doi.org/10.18280/isi.260106	Daoudi, S., Zouaoui, C.M.A., El-Mezouar, M.C., Taleb, N. (2021). Parallelization of the K-means++ clustering algorithm. Ingénierie des Systèmes d'Information, Vol. 26, No. 1, pp. 59-66. https://doi.org/10.18280/isi.260106

511	Subbiah, S.S., Chinnappan, J.	Opportunities and Challenges of Feature Selection Methods for High Dimensional Data: A Review	big data analysis, data mining, feature selection, machine learning, Hadoop, Spark, centralized processing, distributed parallel processing	26, 1, 67-77	https://doi.org/10.18280/isi.260107	Subbiah, S.S., Chinnappan, J. (2021). Opportunities and challenges of feature selection methods for high dimensional data: A review. Ingénierie des Systèmes d'Information, Vol. 26, No. 1, pp. 67-77. https://doi.org/10.18280/isi.260107
512	Metwaly, S.S., El-Haleem, A.M.A., El-Ghandour, O.	No-Regret Matching Game Algorithm for NOMA Based UAV-Assisted NB-IoT Systems	NB-IoT, UAV, regret matching, NOMA, matching game, LTE, URLLC, mMTC	26, 1, 79-85	https://doi.org/10.18280/isi.260108	Metwaly, S.S., El-Haleem, A.M.A., El-Ghandour, O. (2021). No-regret matching game algorithm for NOMA based UAV-Assisted NB-IoT systems. Ingénierie des Systèmes d' Information, Vol. 26, No. 1, pp. 79-85. https://doi.org/10.18280/isi.260108
513	Patalay, S., Bandlamudi, M.R.	Decision Support System for Stock Portfolio Selection Using Artificial Intelligence and Machine Learning	decision support system (DSS), machine learning, stock portfolio, artificial intelligence (AI), intrinsic stock value	26, 1, 87-93	https://doi.org/10.18280/isi.260109	Patalay, S., Bandlamudi, M.R. (2021). Decision support system for stock portfolio selection using artificial intelligence and machine learning. Ingénierie des Systèmes d'Information, Vol. 26, No. 1, pp. 87-93. https://doi.org/10.18280/isi.260109
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515	Alti, A., Almuhirat, A.	An Advanced IoT-Based Tool for Effective Employee Performance Evaluation in the Banking Sector	IoT, human resource, smart technology, decision-making, intelligence, performance metric	26, 1, 103-108	https://doi.org/10.18280/isi.260111	Alti, A., Almuhirat, A. (2021). An advanced IoT-based tool for effective employee performance evaluation in the banking sector. Ingénierie des Systèmes d'Information, Vol. 26, No. 1, pp. 103-108. https://doi.org/10.18280/isi.260111
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519	Rao, K.S., Sridhar, M.	A Novel Image Encryption Using Parity Based Visual Cryptography	ixel expansion, parity, bit slicing, XOR operation	26, 1, 135-142	https://doi.org/10.18280/isi.260115	Rao, K.S., Sridhar, M. (2021). A novel image encryption using parity based visual cryptography. Ingénierie des Systèmes d' Information, Vol. 26, No. 1, pp. 135-142. https://doi.org/10.18280/isi.260115
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524	Metlapalli, A.C., Muthusamy, T., Battula, B.P.	Classification of social media text spam using VAE-CNN and LSTM model	spam data, convolution neural network (CNN), (long short term memory networks) LSTM, deep learning, variational auto-encoder (VAE)	25, 6, 747-753	https://doi.org/10.18280/isi.250605	Metlapalli, A.C., Muthusamy, T., Battula, B.P. (2020). Classification of social media text spam using VAE-CNN and LSTM model. Ingénierie des Systèmes d'Information, Vol. 25, No. 6, pp. 747-753. https://doi.org/10.18280/isi.250605
525	Mohammed, N.R., Mohammed, M.	Assessment of twitter data clusters with cosine-based validation metrics using hybrid topic models	cluster tendency, cosine based similarity measure, cosine based validity indices, hybrid topic models, twitter data clustering	25, 6, 755-769	https://doi.org/10.18280/isi.250606	Mohammed, N.R., Mohammed, M. (2020). Assessment of twitter data clusters with cosine-based validation metrics using hybrid topic models. Ingénierie des Systèmes d'Information, Vol. 25, No. 6, pp. 755-769. https://doi.org/10.18280/isi.250606

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529	Zerguine, N., Mostefai, M., Aliouat, Z., Slimani, Y.	Intelligent CW selection mechanism based on Q-learning (MISQ)	DCF, deep reinforcement learning, CW, IEEE 802.11, MAC protocol, MANET, Q-learning	25, 6, 803-811	https://doi.org/10.18280/isi.250610	Zerguine, N., Mostefai, M., Aliouat, Z., Slimani, Y. (2020). Intelligent CW selection mechanism based on Q-learning (MISQ). Ingénierie des Systèmes d'Information, Vol. 25, No. 6, pp. 803-811. https://doi.org/10.18280/isi.250610
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531	Dhar, J., Jodder, A.K.	An effective recommendation system to forecast the best educational program using machine learning classification algorithms	automated recommendation system, students' academic performance, machine learning techniques, machine learning classification algorithms, educational data mining	25, 5, 559-568	https://doi.org/10.18280/isi.250502	Dhar, J., Jodder, A.K. (2020). An effective recommendation system to forecast the best educational program using machine learning classification algorithms. Ingénierie des Systèmes d' Information, Vol. 25, No. 5, pp. 559-568. https://doi.org/10.18280/isi.250502
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534	Afify, H.M., Darwish, A., Mohammed, K.K., Hassanien, A.E.	An automated CAD system of CT chest images for COVID-19 based on genetic algorithm and K-nearest neighbor classifier	COVID-19, CT scans, computer-aided detection (CAD), Genetic algorithm, K-Nearest Neighbor (KNN), decision tree	25, 5, 589-594	https://doi.org/10.18280/isi.250505	Afify, H.M., Darwish, A., Mohammed, K.K., Hassanien, A.E. (2020). An automated CAD system of CT chest images for COVID-19 based on genetic algorithm and K-nearest neighbor classifier. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 589-594. https://doi.org/10.18280/isi.250505
535	Wen, J., Wei, X.C., He, T., Zhang, S.S.	Regression analysis on the influencing factors of the acceptance of online education platform among college students	online education platform, regression analysis, acceptance, college students	25, 5, 595-600	https://doi.org/10.18280/isi.250506	Wen, J., Wei, X.C., He, T., Zhang, S.S. (2020). Regression analysis on the influencing factors of the acceptance of online education platform among college students. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 595-600. https://doi.org/10.18280/isi.250506
536	Saidi, R., Cherrid, N., Bentahar, T., Mayache, H., Bentahar, A.	Number of pixel change rate and unified average changing intensity for sensitivity analysis of encrypted inSAR interferogram	AES-256, inSAR crypt interferogram, RSA, UACI, NPCR, SSIM, GSSIM, encryption mode CTR, encryption mode OFB	25, 5, 601-607	https://doi.org/10.18280/isi.250507	Saidi, R., Cherrid, N., Bentahar, T., Mayache, H., Bentahar, A. (2020). Number of pixel change rate and unified average changing intensity for sensitivity analysis of encrypted inSAR interferogram. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 601-607. https://doi.org/10.18280/isi.250507
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539	Hu, Y.D., Li, X.Y.	An evaluation model of comprehensive human resources quality of financial enterprises based on deep neural network	human resources (HR), quality evaluation, deep neural network (DNN), N-evaluation model	25, 5, 629-636	https://doi.org/10.18280/isi.250510	Hu, Y.D., Li, X.Y. (2020). An evaluation model of comprehensive human resources quality of financial enterprises based on deep neural network. Ingénierie des Systèmes d' Information, Vol. 25, No. 5, pp. 629-636. https://doi.org/10.18280/isi.250510
540	Satla, S.P., Sadanandam, M., Suvarna, B.	Dangerous prediction in roads by using machine learning models	dangerous roads, support vector machine, accidents, fatalities, logistic regression, decision tree, random forest, gaussian naive bayes, K- nearest neighbor	25, 5, 637-644	https://doi.org/10.18280/isi.250511	Satla, S.P., Sadanandam, M., Suvarna, B. (2020). Dangerous prediction in roads by using machine learning models. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 637-644. https://doi.org/10.18280/isi.250511

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542	Kumar, P., Gangal, A., Kumari, S., Tiwari, S.	Recombinant sort: N-dimensional cartesian spaced algorithm designed from synergetic combination of hashing, bucket, counting and radix sort	recombinant sort, bucket sort, counting sort, radix sort, hashing, sorting algorithm	25, 5, 655-668	https://doi.org/10.18280/isi.250513	Kumar, P., Gangal, A., Kumari, S., Tiwari, S. (2020). Recombinant sort: N-dimensional cartesian spaced algorithm designed from synergetic combination of hashing, bucket, counting and radix sort. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 655-668. https://doi.org/10.18280/isi.250513
543	Singh, R.K., Singh, P., Bathla, G.	User-review oriented social recommender system for event planning	sentiment analysis, recommender systems, social network, social contextual information, wedding planner	25, 5, 669-675	https://doi.org/10.18280/isi.250514	Singh, R.K., Singh, P., Bathla, G. (2020). User-review oriented social recommender system for event planning. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 669-675. https://doi.org/10.18280/isi.250514
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545	Bulla, S., Reddy, C.V.R., Padmavathi, P., Padmasri, T.	Analytical evaluation of resource estimation in web application services	cloud computing, web application, queuing model, AWS	25, 5, 683-690	https://doi.org/10.18280/isi.250516	Bulla, S., Reddy, C.V.R., Padmavathi, P., Padmasri, T. (2020). Analytical evaluation of resource estimation in web application services. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 683-690. https://doi.org/10.18280/isi.250516
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547	Shen, X.G.	Design and application of a virtual simulation teaching system based on cloud service	virtual simulation (VS), cloud service (CS), VS teaching system, simulation system design	25, 5, 699-707	https://doi.org/10.18280/isi.250518	Shen, X.G. (2020). Design and application of a virtual simulation teaching system based on cloud service. Ingénierie des Systèmes d'Information, Vol. 25, No. 5, pp. 699-707. https://doi.org/10.18280/isi.250518
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549	Yildirim, M., Cinar, A.	Classification of Alzheimer's disease MRI images with CNN based hybrid method	Alzheimer, deep learning, image processing, machine learning, CNN architectures	25, 4, 413-418	https://doi.org/10.18280/isi.250402	Yildirim, M., Cinar, A. (2020). Classification of Alzheimer's disease MRI images with CNN based hybrid method. Ingé nierie des Systèmes d'Information, Vol. 25, No. 4, pp. 413-418. https://doi.org/10.18280/isi.250402
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551	Pirmard, S.S., Forghani, Y.	Improving the speed of support vector regression using regularized least square regression	ε-insensitive support vector regression (ε-SVR), regularized least square (RLS), runtime, function estimation	25, 4, 427-435	https://doi.org/10.18280/isi.250404	Pirmard, S.S., Forghani, Y. (2020). Improving the speed of support vector regression using regularized least square regression. Ingénierie des Systèmes d'Information, Vol. 25, No. 4, pp. 427-435. https://doi.org/10.18280/isi.250404
552	Rehman, H.U., Anwar, S., Tufail, M.	Machine vision based plant disease classification through leaf imagining	machine learning, multi-class SVM, machine vision	25, 4, 437-444	https://doi.org/10.18280/isi.250405	Rehman, H.U., Anwar, S., Tufail, M. (2020). Machine vision based plant disease classification through leaf imagining. Ingé nierie des Systèmes d'Information, Vol. 25, No. 4, pp. 437-444. https://doi.org/10.18280/isi.250405
553	Zhu, Y.B.	Color management of digital media art images based on image processing	digital media art (DMA) images, color correction, color reconstruction, image quality evaluation	25, 4, 445-452	https://doi.org/10.18280/isi.250406	Zhu, Y.B. (2020). Color management of digital media art images based on image processing. Ingénierie des Systèmes d' Information, Vol. 25, No. 4, pp. 445-452. https://doi.org/10.18280/isi.250406
554	Yadav, M., Ranvijay.	Cheating prevention and detection technique in visual secret sharing	collusion attack, cheating prevention, hamming code, visual secret sharing	25, 4, 453-460	https://doi.org/10.18280/isi.250407	Yadav, M., Ranvijay. (2020). Cheating prevention and detection technique in visual secret sharing. Ingénierie des Syst èmes d'Information, Vol. 25, No. 4, pp. 453-460. https://doi.org/10.18280/isi.250407
555	Peng, Z.M.	An operation and maintenance strategy of intelligent building information model data based on cloud computing	intelligent building information model (IBIM), cloud computing, the industry foundation classes (IFC), MapReduce environment	25, 4, 461-467	https://doi.org/10.18280/isi.250408	Peng, Z.M. (2020). An operation and maintenance strategy of intelligent building information model data based on cloud computing. Ingénierie des Systèmes d'Information, Vol. 25, No. 4, pp. 461-467. https://doi.org/10.18280/isi.250408

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557	Ibnugraha, P.D., Nugroho, L.E., Santosa, P.I.	Reliability analysis of risk model metrics based on business approach in information security	reliability analysis, Cronbach's alpha, risk model, information security, business approach	25, 4, 475-480	https://doi.org/10.18280/isi.250410	Ibnugraha, P.D., Nugroho, L.E., Santosa, P.I. (2020). Reliability analysis of risk model metrics based on business approach in information security. Ingénierie des Systèmes d' Information, Vol. 25, No. 4, pp. 475-480. https://doi.org/10.18280/isi.250410
558	Ou, L.Y., Chen, L.	Predicting risk propagation of corporate Internet reporting based on fuzzy neural network	corporate internet reporting (CIR), risk propagation, fuzzy neural network (FNN), evaluation index system (EIS)	25, 4, 481-488	https://doi.org/10.18280/isi.250411	Ou, L.Y., Chen, L. (2020). Predicting risk propagation of corporate Internet reporting based on fuzzy neural network. Ing énierie des Systèmes d'Information, Vol. 25, No. 4, pp. 481-488. https://doi.org/10.18280/isi.250411
559	Sajja, V.R., Kalluri, H.K.	Classification of brain tumors using convolutional neural network over various SVM methods	magnetic resonance imaging (MRI), brain tumor, convolutional neural network (CNN), convolution layer, max pooling	25, 4, 489-495	https://doi.org/10.18280/isi.250412	Sajja, V.R., Kalluri, H.K. (2020). Classification of brain tumors using convolutional neural network over various SVM methods. Ingénierie des Systèmes d'Information, Vol. 25, No. 4, pp. 489-495. https://doi.org/10.18280/isi.250412
560	Liang, Y., Chen, N.	A novel tourist attraction recommendation system based on improved visual bayesian personalized ranking	recommendation system, Bayesian personalized ranking (BPR), stratified sampling, tourist attractions	25, 4, 497-503	https://doi.org/10.18280/isi.250413	Liang, Y., Chen, N. (2020). A novel tourist attraction recommendation system based on improved visual bayesian personalized ranking. Ingénierie des Systèmes d'Information, Vol. 25, No. 4, pp. 497-503. https://doi.org/10.18280/isi.250413
561	Somisetti, V.S.S., Palla, S.H.	Efficient clustering of water distribution network using affinity propagation	water distribution network, affinity-propagation, exemplars, node properties, edge properties	25, 4, 505-513	https://doi.org/10.18280/isi.250414	Somisetti, V.S.S., Palla, S.H. (2020). Efficient clustering of water distribution network using affinity propagation. Ingé nierie des Systèmes d'Information, Vol. 25, No. 4, pp. 505-513. https://doi.org/10.18280/isi.250414
562	Narayana, V.L., Gopi, A.P., Radhika, P., Sandeep, K.S.	Secure data uploading and accessing sensitive data using time level locked encryption to provide an efficient cloud framework	cloud computing, data security, data uploading, data accessing, data encryption, cloud user, cloud service provider	25, 4, 515-519	https://doi.org/10.18280/isi.250415	Narayana, V.L., Gopi, A.P., Radhika, P., Sandeep, K.S. (2020). Secure data uploading and accessing sensitive data using time level locked encryption to provide an efficient cloud framework. Ingénierie des Systèmes d'Information, Vol. 25, No. 4, pp. 515-519. https://doi.org/10.18280/isi.250415
563	Cao, Z.Q.	Classification of digital teaching resources based on data mining	data mining, k-nearest neighbor (KNN) algorithm, term frequency-inverse document frequency (TF-IDF) algorithm, digital teaching resources, density cutting	25, 4, 521-526	https://doi.org/10.18280/isi.250416	Cao, Z.Q. (2020). Classification of digital teaching resources based on data mining. Ingénierie des Systèmes d'Information, Vol. 25, No. 4, pp. 521-526. https://doi.org/10.18280/isi.250416
564	Battula, B.P., Balaganesh, D.	Prediction of hospital re-admission using firefly based multi-layer perceptron	firefly optimization, multi-layer perceptron, hospital readmission, mimic-3 data, quality care of patient, machine learning, prediction, electronic medical data	25, 4, 527-533	https://doi.org/10.18280/isi.250417	Battula, B.P., Balaganesh, D. (2020). Prediction of hospital re-admission using firefly based multi-layer perceptron. Ingénierie des Systèmes d'Information, Vol. 25, No. 4, pp. 527-533. https://doi.org/10.18280/isi.250417
565	Sun, Y., Chai, R.Q.	An early-warning model for online learners based on user portrait	user portrait, data mining, online learning, association rules, early-warning of learning situation	25, 4, 535-541	https://doi.org/10.18280/isi.250418	Sun, Y., Chai, R.Q. (2020). An early-warning model for online learners based on user portrait. Ingénierie des Systèmes d' Information, Vol. 25, No. 4, pp. 535-541. https://doi.org/10.18280/isi.250418
566	Yang, S.Y., Tan, C.	Detection of conflicts between resource authorization rules in extensible access control markup language based on dynamic description logic	dynamic description logic (DDL), extensible access control markup language (XACML), access control rule (ACR), rule conflict detection	25, 3, 285-294	https://doi.org/10.18280/isi.250301	Yang, S.Y., Tan, C. (2020). Detection of conflicts between resource authorization rules in extensible access control markup language based on dynamic description logic. Ingé nierie des Systèmes d'Information, Vol. 25, No. 3, pp. 285-294. https://doi.org/10.18280/isi.250301
567	Kerbaa, T.H., Mezache, A., Oudira, H.	Parameter estimation in radar K-clutter plus noise based on Otsu's algorithm	K-clutter plus noise, parameter estimation, fractional order moments, thresholding, Otsu's algorithm	25, 3, 295-302	https://doi.org/10.18280/isi.250302	Kerbaa, T.H., Mezache, A., Oudira, H. (2020). Parameter estimation in radar K-clutter plus noise based on Otsu's algorithm. Ingénierie des Systèmes d'Information, Vol. 25, No. 3, pp. 295-302. https://doi.org/10.18280/isi.250302
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569	Zhang, R.X.	Design and application of a prediction model for user purchase intention based on big data analysis	big data analysis, purchase intentions, purchase behaviors, deep convolutional neural network (D-CNN)	25, 3, 311-317	https://doi.org/10.18280/isi.250304	Zhang, R.X. (2020). Design and application of a prediction model for user purchase intention based on big data analysis. Ingénierie des Systèmes d'Information, Vol. 25, No. 3, pp. 311-317. https://doi.org/10.18280/isi.250304
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574	Chigozirim, A., Vivian, N.O., Uchenna, N.J., Oreoluwa, A.A.	A patient monitoring system using internet of things technology	microcontroller, patient monitoring, internet of things, interfacing, internet	25, 3, 351-357	https://doi.org/10.18280/isi.250309	Chigozirim, A., Vivian, N.O., Uchenna, N.J., Oreoluwa, A.A. (2020). A patient monitoring system using internet of things technology. Ingénierie des Systèmes d'Information, Vol. 25, No. 3, pp. 351-357. https://doi.org/10.18280/isi.250309
575	Liu, Y., Yang, H., Sun, G.X., Bin, S.	Collaborative filtering recommendation algorithm based on multi-relationship social network	collaborative filtering recommendation algorithm, complex network, matrix decomposition, data sparsity, social network	25, 3, 359-364	https://doi.org/10.18280/isi.250310	Liu, Y., Yang, H., Sun, G.X., Bin, S. (2020). Collaborative filtering recommendation algorithm based on multi-relationship social network. Ingénierie des Systèmes d'Information, Vol. 25, No. 3, pp. 359-364. https://doi.org/10.18280/isi.250310
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579	Utomo, M.N.Y., Sudaryanto, M., Saddhono, K.	Tools and strategy for distance learning to respond COVID-19 pandemic in Indonesia	distance learning, online learning, pandemic, COVID-19, distance learning tools	25, 3, 383-390	https://doi.org/10.18280/isi.250314	Utomo, M.N.Y., Sudaryanto, M., Saddhono, K. (2020). Tools and strategy for distance learning to respond COVID-19 pandemic in Indonesia. Ingénierie des Systèmes d'Information, Vol. 25, No. 3, pp. 383-390. https://doi.org/10.18280/isi.250314
580	Veeranjaneyulu, N., Bodapati, J.D., Buradagunta, S.	Classifying limited resource data using semi-supervised SVM	supervised learning, Laplacian SVM, semi-supervised learning, SVM-light, S3VM	25, 3, 391-395	https://doi.org/10.18280/isi.250315	Veeranjaneyulu, N., Bodapati, J.D., Buradagunta, S. (2020). Classifying limited resource data using semi-supervised SVM. Ingénierie des Systèmes d'Information, Vol. 25, No. 3, pp. 391-395. https://doi.org/10.18280/isi.250315
581	Liang, H.Q.	A precision advertising strategy based on deep reinforcement learning	deep reinforcement learning (DRL), precision advertising, Q-learning, feature extraction	25, 3, 397-403	https://doi.org/10.18280/isi.250316	Liang, H.Q. (2020). A precision advertising strategy based on deep reinforcement learning. Ingénierie des Systèmes d' Information, Vol. 25, No. 3, pp. 397-403. https://doi.org/10.18280/isi.250316
582	Chabbi, S., Boudour, R., Semchedine, F.	A secure cloud password and secure authentication protocol for electronic NFC payment between ATM and smartphone	authentication, confidentiality, hash function, NFC, automated teller machine, smartphone payment, secure element	25, 2, 139-152	https://doi.org/10.18280/isi.250201	Chabbi, S., Boudour, R., Semchedine, F. (2020). A secure cloud password and secure authentication protocol for electronic NFC payment between ATM and smartphone. Ingénierie des Systèmes d'Information, Vol. 25, No. 2, pp. 139-152. https://doi.org/10.18280/isi.250201
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584	Heni, B.	COVID-19, Bacille Calmette-Guérin (BCG) and tuberculosis: Cases and recovery previsions with deep learning sequence prediction	COVID-19, deep learning, RNN, GRU, LSTM, BCG, tuberculosis	25, 2, 165-172	https://doi.org/10.18280/isi.250203	Heni, B. (2020). COVID-19, Bacille Calmette-Guérin (BCG) and tuberculosis: Cases and recovery previsions with deep learning sequence prediction. Ingénierie des Systèmes d' Information, Vol. 25, No. 2, pp. 165-172. https://doi.org/10.18280/isi.250203
585	Hussain, M.A., Duraisamy, B.	Preventing malicious packet drops in MANETs by counter based authenticated acknowledgement	MANET, acknowledgment, packet drop, resource, mitigation and key agreement	25, 2, 173-181	https://doi.org/10.18280/isi.250204	Hussain, M.A., Duraisamy, B. (2020). Preventing malicious packet drops in MANETs by counter based authenticated acknowledgement. Ingénierie des Systèmes d'Information, Vol. 25, No. 2, pp. 173-181. https://doi.org/10.18280/isi.250204

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587	Saddhono, K., Setyawan, B.W., Raharjo, Y.M., Devilito, R.	The diagnosis of online game addiction on Indonesian adolescent using certainty factor method	game online addiction, Indonesian adolescent, certainty factor method, expert system	25, 2, 191-197	https://doi.org/10.18280/isi.250206	Saddhono, K., Setyawan, B.W., Raharjo, Y.M., Devilito, R. (2020). The diagnosis of online game addiction on Indonesian adolescent using certainty factor method. Ingénierie des Systè mes d'Information, Vol. 25, No. 2, pp. 191-197. https://doi.org/10.18280/isi.250206
588	Subramanian, B., Yesudhas, H.R., Enoch, G.J.	Channel-based encrypted binary arithmetic coding in wireless sensor networks	crypto signature, hash function, code conversion, efficiency	25, 2, 199-206	https://doi.org/10.18280/isi.250207	Subramanian, B., Yesudhas, H.R., Enoch, G.J. (2020). Channel-based encrypted binary arithmetic coding in wireless sensor networks. Ingénierie des Systèmes d'Information, Vol. 25, No. 2, pp. 199-206. https://doi.org/10.18280/isi.250207
589	Luo, H.N.	An emergency management system for government data security based on artificial intelligence	government data resilience chain (GDRC), emergency management, multi-agent formation, fault tolerance	25, 2, 207-213	https://doi.org/10.18280/isi.250208	Luo, H.N. (2020). An emergency management system for government data security based on artificial intelligence. Ingé nierie des Systèmes d'Information, Vol. 25, No. 2, pp. 207-213. https://doi.org/10.18280/isi.250208
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594	Yang, B.H., Ren, Q.H., Li, H.S., Song, J.K.	A low-signal-to-noise ratio estimation algorithm for multipath channels	multipath channel, periodic sequences, signal-to-noise ratio (SNR), low SNR estimation, white Gaussian noise (WGN)	25, 2, 253-258	https://doi.org/10.18280/isi.250213	Yang, B.H., Ren, Q.H., Li, H.S., Song, J.K. (2020). A low-signal-to-noise ratio estimation algorithm for multipath channels. Ingénierie des Systèmes d'Information, Vol. 25, No. 2, pp. 253-258. https://doi.org/10.18280/isi.250213
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596	Xu, M.B., Peng, D.H.	Fire safety assessment of high-rise buildings based on fuzzy theory and radial basis function neural network	high-rise buildings, fuzzy logic system, radial basis function neural network (RBFNN), fire safety	25, 2, 267-274	https://doi.org/10.18280/isi.250215	Xu, M.B., Peng, D.H. (2020). Fire safety assessment of high-rise buildings based on fuzzy theory and radial basis function neural network. Ingénierie des Systèmes d'Information, Vol. 25, No. 2, pp. 267-274. https://doi.org/10.18280/isi.250215
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598	Mourad, A., Latifa, M.	A generic modeling approach for E-administration based on holonic systems - case study of collective move due to a natural disaster	E-administration, E-administrative service, holonic multi agents system (HMAS), Holon, Holonisation, Interoperability, integrated services, holonic architecture	25, 1, 1-10	https://doi.org/10.18280/isi.250101	Mourad, A., Latifa, M. (2020). A generic modeling approach for E-administration based on holonic systems - case study of collective move due to a natural disaster. Ingénierie des Systè mes d'Information, Vol. 25, No. 1, pp. 1-10. https://doi.org/10.18280/isi.250101
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603	Bouldjadj, S., Aliouat, Z.	High throughput and thermal aware routing protocol (HTTRP) for wireless body area networks	energy-aware, routing protocols, thermal-aware, throughput, wireless body area networks	25, 1, 41-48	https://doi.org/10.18280/isi.250106	Bouldjadj, S., Aliouat, Z. (2020). High throughput and thermal aware routing protocol (HTTRP) for wireless body area networks. Ingénierie des Systèmes d’Information, Vol. 25, No. 1, pp. 41-48. https://doi.org/10.18280/isi.250106
604	Zhao, Y.M.	Improvement and application of multi-layer LSTM algorithm based on spatial-temporal correlation	long-short term memory (LSTM) network, air pollutant concentration prediction, recurrent neural network (RNN), spatial-temporal correlation, PM2.5 concentration	25, 1, 49-58	https://doi.org/10.18280/isi.250107	Zhao, Y.M. (2020). Improvement and application of multi-layer LSTM algorithm based on spatial-temporal correlation. Ingénierie des Systèmes d’Information, Vol. 25, No. 1, pp. 49-58. https://doi.org/10.18280/isi.250107
605	Yadav, S., Mohan, R., Yadav, P.K.	Task allocation model for optimal system cost using fuzzy c-means clustering technique in distributed system	distributed system, task scheduling, load balancing, fuzzy c-means, Hungarian method	25, 1, 59-68	https://doi.org/10.18280/isi.250108	Yadav, S., Mohan, R., Yadav, P.K. (2020). Task allocation model for optimal system cost using fuzzy c-means clustering technique in distributed system. Ingénierie des Systèmes d’ Information, Vol. 25, No. 1, pp. 59-68. https://doi.org/10.18280/isi. 250108
606	Widyaningrum, H.K., Hasanudin, C., Fitrianingsih, A., Novianti, D.E., Saddhono, K., Supratmi, N.	he use of Edmodo apps in flipped classroom learning. How is the students ’ creative thinking ability?	flipped classroom, Edmodo apps, creative thinking ability, a course of Indonesian language and literature study	25, 1, 69-74	https://doi.org/10.18280/isi.250109	Widyaningrum, H.K., Hasanudin, C., Fitrianingsih, A., Novianti, D.E., Saddhono, K., Supratmi, N. (2020). The use of Edmodo apps in flipped classroom learning. How is the students’ creative thinking ability? Ingénierie des Systèmes d’ Information, Vol. 25, No. 1, pp. 69-74. https://doi.org/10.18280/isi.250109
607	Tang, X., Zeng, T., Tan, Y., Ding, B.X.	Conflict analysis based on three-way decision theoretic fuzzy rough set over two universes	conflict information system (CIS), fuzzy rough set (FRS), conflict analysis, three-way decision, two universes	25, 1, 75-82	https://doi.org/10.18280/isi.250110	Tang, X., Zeng, T., Tan, Y., Ding, B.X. (2020). Conflict analysis based on three-way decision theoretic fuzzy rough set over two universes. Ingénierie des Systèmes d’Information, Vol. 25, No.1, pp. 75-82. https://doi.org/10.18280/isi.250110
608	Nannapaneni, S., Sistla, V., Kolli, V.K.K.	Performance evaluation of generative adversarial networks for computer vision applications	distributed system, task scheduling, load balancing, fuzzy c-means, hungarian method	25, 1, 83-92	https://doi.org/10.18280/isi.250111	Nannapaneni, S., Sistla, V., Kolli, V.K.K. (2020). Performance evaluation of generative adversarial networks for computer vision applications. Ingénierie des Systèmes d’Information, Vol. 25, No. 1, pp. 83-92. https://doi.org/10.18280/isi.250111
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611	Shang, H.	Model and algorithms of enterprise informatization software selection based on grey relational analysis	enterprise informatization, software selection, grey relational analysis (GRA), model and algorithm, decision and optimization	25, 1, 107-112	https://doi.org/10.18280/isi.250114	Shang, H. (2020). Model and algorithms of enterprise informatization software selection based on grey relational analysis. Ingénierie des Systèmes d’Information, Vol. 25, No. 1, pp. 107-112. https://doi.org/10.18280/isi.250114
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621	Zhang, C.H., Xue, W., Xin, Y.	Design and application of an intelligent patrol algorithm for forest management and protection based on global positioning system	Intelligent Patrol Algorithm, Global Positioning System (GPS), dijkstra's algorithm, forest management and protection (M&P)	24, 6, 597-602	https://doi.org/10.18280/isi.240606	Zhang, C.H., Xue, W., Xin, Y. (2019). Design and application of an intelligent patrol algorithm for forest management and protection based on global positioning system. Ingénierie des Systèmes d'Information, Vol. 24, No. 6, pp. 597-602. https://doi.org/10.18280/isi.240606
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623	Yadav, A., Ritika, Garg, M.L.	Monitoring based security approach for cloud computing	cloud storage server, data monitor, hybrid encryption scheme, RSA digital signature, SHA hash	24, 6, 611-617	https://doi.org/10.18280/isi.240608	Yadav, A., Ritika, Garg, M.L. (2019). Monitoring based security approach for cloud computing. Ingénierie des Systè mes d'Information, Vol. 24, No. 6, pp. 611-617. https://doi.org/10.18280/isi.240608
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635	Li, M.X., Liao, R.Q., Dong, Y.	Adaptive determination of time delay in grey prediction model with time delay	Grey System Theory (GST), Time Delay, Representative Subsequence (RS), Automatic Extraction	24, 5, 519-524	https://doi.org/10.18280/isi.240509	Li, M.X., Liao, R.Q., Dong, Y. (2019). Adaptive determination of time delay in grey prediction model with time delay. Ingénierie des Systèmes d'Information, Vol. 24, No. 5, pp. 519-524. https://doi.org/10.18280/isi.240509
636	Li, X.L., Li, Z.	A hybrid prediction model for e-commerce customer churn based on logistic regression and extreme gradient boosting algorithm	customer churn, logistic regression, e-commerce, Extreme Gradient Boosting (XGBoost) algorithm, empirical analysis	24, 5, 525-530	https://doi.org/10.18280/isi.240510	Li, X.L., Li, Z. (2019). A hybrid prediction model for e-commerce customer churn based on logistic regression and extreme gradient boosting algorithm. Ingénierie des Systèmes d 'Information, Vol. 24, No. 5, pp. 525-530. https://doi.org/10.18280/isi.240510
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640	Sikder, S., Metya, S.K., Goswami, R.S.	Exception-tolerant decision tree / rule based classifiers	classification, exception tolerant, bagging, boosting, default rule, inefficient rules	24, 5, 553-558	https://doi.org/10.18280/isi.240514	Sikder, S., Metya, S.K., Goswami, R.S. (2019). Exception-tolerant decision tree / rule based classifiers. Ingénierie des Systèmes d'Information, Vol. 24, No. 5, pp. 553-558. https://doi.org/10.18280/isi.240514
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642	Saddhono, K., Hasanudin, C., Fitrianingsih, A.	The ability to think creatively on SSCS using schoology Apps, how is the student's language metacognitive awareness?	creative thinking, metacognitive awareness, schoology apps, Search, Solve, Create and Share (SSCS) learning	24, 4, 367-375	https://doi.org/10.18280/isi.240402	Saddhono, K., Hasanudin, C., Fitrianingsih, A. (2019). The ability to think creatively on SSCS using schoology Apps, how is the student's language metacognitive awareness? Ingénierie des Systèmes d'Information, Vol. 24, No. 4, pp. 367-375. https://doi.org/10.18280/isi.240402
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650	Bansal, N., Sharma, A., Singh, R.K.	An evolving hybrid deep learning framework for legal document classification	convolution neural network (CNN), bidirectional long short-term memory (BiLSTM), neuroevolution, hyper-parameters, optimization	24, 4, 425-431	https://doi.org/10.18280/isi.240410	Bansal, N., Sharma, A., Singh, R.K. (2019). An evolving hybrid deep learning framework for legal document classification. Ingénierie des Systèmes d’Information, Vol. 24, No. 4, pp. 425-431. https://doi.org/10.18280/isi.240410
651	Yu, J.	Design of a privacy-preserving algorithm for peer-to-peer network based on differential privacy	peer-to-peer network (P2P), privacy preserving, differential privacy, sensitivity, privacy budget	24, 4, 433-437	https://doi.org/10.18280/isi.240411	Yu, J. (2019). Design of a privacy-preserving algorithm for peer-to-peer network based on differential privacy. Ingénierie des Systèmes d’Information, Vol. 24, No. 4, pp. 433-437. https://doi.org/10.18280/isi.240411
652	Hocine, T., Salem, A.	Modified flower pollination algorithm constrained optimal power flow	power system, optimal power flow, global optimization, flower pollination algorithm (FPA), security constrained	24, 4, 439-444	https://doi.org/10.18280/isi.240412	Hocine, T., Salem, A. (2019). Modified flower pollination algorithm constrained optimal power flow. Ingénierie des Systèmes d’Information, Vol. 24, No. 4, pp. 439-444. https://doi.org/10.18280/isi.240412
653	Kurra, A.K., Nelakuditi, U.R.	Design of a reliable current starved inverter based arbiter physical unclonable functions (PUFs) for hardware cryptography	current starved inverter (CSI), cryptographic keys, physical unclonable functions (PUFs), support vector machine (SVM), temperature instability	24, 4, 445-454	https://doi.org/10.18280/isi.240413	Kurra, A.K., Nelakuditi, U.R. (2019). Design of a reliable current starved inverter based arbiter physical unclonable functions (PUFs) for hardware cryptography. Ingénierie des Systèmes d’Information, Vol. 24, No. 4, pp. 445-454. https://doi.org/10.18280/isi.240413
654	Elembaby, S.M., Ghoneim, V.F., Abdel-Wahed, M.	ANOVAG3: A hybrid algorithm for inferring gene regulatory network using time series gene expression data	gene regulatory network, GENIE3, DREAM5, one-way analysis of variance, tree-based ensemble method	24, 3, 229-232	https://doi.org/10.18280/isi.240301	Elembaby, S.M., Ghoneim, V.F., Abdel-Wahed, M. (2019). ANOVAG3: A hybrid algorithm for inferring gene regulatory network using time series gene expression data. Ingénierie des Systèmes d’Information, Vol. 24, No. 3, pp. 229-232. https://doi.org/10.18280/isi.240301
655	Sama, H.R., Vemuri, V.K., Talagadadeevi, S.R., Bhavirisetti, S.K.	Analysis of an N-policy MX/M/1 two-phase queueing system with state-dependent arrival rates and unreliable server	batch arrival, breakdowns, delayed repair, generating functions, cost function	24, 3, 233-240	https://doi.org/10.18280/isi.240302	Sama, H.R., Vemuri, V.K., Talagadadeevi, S.R., Bhavirisetti, S.K. (2019). Analysis of an N-policy MX/M/1 two-phase queueing system with state-dependent arrival rates and unreliable server. Ingénierie des Systèmes d’Information, Vol. 24, No. 3, pp. 233-240. https://doi.org/10.18280/isi.240302
656	Wang, H.S., Zhu, J.Y.	A quadtree spatial index method with inclusion relations and its application in landcover database update	spatial index, landcover database, inclusion relation, quadtree, incremental update	24, 3, 241-247	https://doi.org/10.18280/isi.240303	Wang, H.S., Zhu, J.Y. (2019). A quadtree spatial index method with inclusion relations and its application in landcover database update. Ingénierie des Systèmes d’Information, Vol. 24, No. 3, pp. 241-247. https://doi.org/10.18280/isi.240303
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663	Lei, T.T., Zou, G.T.	Interactive design of commercial space signage system based on object detection	Commercial Space Signage System (CSSS), interactive design, object detection, analysis and evaluation, Convolutional Neural Network (CNN)	24, 3, 303-311	https://doi.org/10.18280/isi.240310	Lei, T.T., Zou, G.T. (2019). Interactive design of commercial space signage system based on object detection. Ingénierie des Systèmes d'Information, Vol. 24, No. 3, pp. 303-311. https://doi.org/10.18280/isi.240310
664	Liu, Y.L., Pang, L., Lu, X.L.	Click-through rate prediction based on mobile computing and big data analysis	big data analysis, mobile computing, Click-through Rate (CTR), feature extraction, abnormal user	24, 3, 313-319	https://doi.org/10.18280/isi.240311	Liu, Y.L., Pang, L., Lu, X.L. (2019). Click-through rate prediction based on mobile computing and big data analysis. Ingénierie des Systèmes d'Information, Vol. 24, No. 3, pp. 313-319. https://doi.org/10.18280/isi.240311
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666	Bai, L., Du, C.L.	Design and simulation of a collision-free path planning algorithm for mobile robots based on improved ant colony optimization	Path Planning, Ant Colony Optimization (ACO), collision-free algorithm, b-spline curve	24, 3, 331-336	https://doi.org/10.18280/isi.240313	Bai, L., Du, C.L. (2019). Design and simulation of a collision-free path planning algorithm for mobile robots based on improved ant colony optimization. Ingénierie des Systèmes d' Information, Vol. 24, No. 3, pp. 331-336. https://doi.org/10.18280/isi.240313
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668	Verma, G., Chakraborty, R.	A hybrid privacy preserving scheme using finger print detection in cloud environment	cloud computing, security, biometric, fingerprint detection, minutiae points, elliptic curve	24, 3, 343-351	https://doi.org/10.18280/isi.240315	Verma, G., Chakraborty, R. (2019). A hybrid privacy preserving scheme using finger print detection in cloud environment. Ingénierie des Systèmes d'Information, Vol. 24, No. 3, pp. 343-351. https://doi.org/10.18280/isi.240315
669	Gade, A., Bhat, M.N., Thakare, N.	Adaptive league championship algorithm (ALCA) for independent task scheduling in cloud computing	meta-heuristic algorithms, LCA, makespan, cloud utilization, job scheduling, economy of scale, resource utilization	24, 3, 353-359	https://doi.org/10.18280/isi.240316	Gade, A., Bhat, M.N., Thakare, N. (2019). Adaptive league championship algorithm (ALCA) for independent task scheduling in cloud computing. Ingénierie des Systèmes d' Information, Vol. 24, No. 3, pp. 353-359. https://doi.org/10.18280/isi.240316
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699	Nagamani C., Chittineni S.	Efficient neighborhood density based outlier detection inside a sub network with high dimensional data	anomaly detection, network, semi-network, density based, outliers, high dimensional data	24, 1, 107-111	https://doi.org/10.18280/isi.240116	Nagamani C., Chittineni S. (2019). Efficient neighborhood density based outlier detection inside a sub network with high dimensional data, Ingenierie des Systemes d'Information, Vol. 24, No. 1, pp. 107-111. https://doi.org/10.18280/isi.240116
700	Arepalli P.G., Narayana V.L., Venkatesh R., Kumar N.A.	Certified node frequency in social network using parallel diffusion methods	social network, greedy calculation, information diffusion, rumor influence, location-based network eager calculation	24, 1, 113-117	https://doi.org/10.18280/isi.240117	Arepalli P.G., Narayana V.L., Venkatesh R., Kumar N.A. (2019). Certified node frequency in social network using parallel diffusion methods, Ingenierie des Systemesd'Information, Vol. 24, No. 1, pp. 113-117. https://doi.org/10.18280/isi.240117
701	Zhou H., Yu K.M.	A novel wireless sensor network data aggregation algorithm based on self-organizing feature mapping neutral network	Wireless Sensor Networks (WSNs), Self-organizing Feature Mapping (SOFM), neural network, data aggregation, feature extraction	24, 1, 119-123	https://doi.org/10.18280/isi.240118	Zhou H., Yu K.M. (2019). A novel wireless sensor network data aggregation algorithm based on self-organizing feature mapping neutral network, Ingenierie des Systemes d'Information, Vol. 24, No. 1, pp. 119-123. https://doi.org/10.18280/isi.240118
702	Bodapati J.D., Veeranjaneyulu N., Shaik S.	Sentiment analysis from movie reviews using LSTMs	recurrent neural networks, gated recurrent neural networks, text mining, word embedding, SVM, deep neural networks	24, 1, 125-129	https://doi.org/10.18280/isi.240119	Bodapati J.D., Veeranjaneyulu N., Shaik S. (2019). Sentiment analysis from movie reviews using LSTMs, Ingenierie des Systemes d'Information, Vol. 24 No. 1, pp. 125-129. https://doi.org/10.18280/isi.240119
703	Barrile, V., Fotia, A., Bilotta, G.	Geodatabase for the assessment of energetic potential of territory	GIS, Energy, Geodatabase	23, 6, 7-17	https://doi.org/10.3166/ISI.23.6.7-17	Barrile, V., Fotia, A., Bilotta, G. (2018). Geodatabase for the assessment of energetic potential of territory. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 7-17. https://doi.org/10.3166/ISI.23.6.7-17
704	Pandey, M., Litoriya, R., Pandey, P.	Mobile APP development based on agility function	App development, extreme programming, MAAF, life cycle model, requirement engineering	23, 6, 19-44	https://doi.org/10.3166/ISI.23.6.19-44	Pandey, M., Litoriya, R., Pandey, P. (2018). Mobile APP development based on agility function. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 19-44. https://doi.org/10.3166/ISI.23.6.19-44
705	Ren, Q.H., Li, S.L., Song, B., Chen, C.	Availability optimization of consistency and availability-based micro-service systems through elastic scheduling of container resources	Consistency (C), Availability (A), Partition Tolerance (P), Micro-Service System, Container, Prediction Model, Elastic Scheduling	23, 6, 45-60	https://doi.org/10.3166/ISI.23.6.45-60	Ren, Q.H., Li, S.L., Song, B., Chen, C. (2018). Availability optimization of consistency and availability-based micro-service systems through elastic scheduling of container resources. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 45-60. https://doi.org/10.3166/ISI.23.6.45-60

706	Gangadharaiah, N.K.C., Chinnasamy, C.	Secured data storage with users validation in cloud environment	privacy, encryption, decryption, cloud registering, security, Trusted Authenticator (TA), energy consumption, energy reduction	23, 6, 61-72	https://doi.org/10.3166/ISI.23.6.61-72	Gangadharaiah, N.K.C., Chinnasamy, C. (2018). Secured data storage with users validation in cloud environment. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 61-72. https://doi.org/10.3166/ISI.23.6.61-72
707	Li, L.X., Gao, J., Liu, Y.F.	Opti-SW: An improved gene sequence alignment algorithm	Gene Sequence Alignment, Smith-Waterman (SW) Algorithm, Optimization, Opti-SW	23, 6, 73-85	https://doi.org/10.3166/ISI.23.6.73-85	Li, L.X., Gao, J., Liu, Y.F. (2018). Opti-SW: An improved gene sequence alignment algorithm. Ingénierie des Systèmes d' Information, Vol. 23, No. 6, pp. 73-85. https://doi.org/10.3166/ISI.23.6.73-85
708	Gopi, A.P., Lakshman Narayana, V., Ashok Kumar, N.	Dynamic load balancing for client server assignment in distributed system using genetical gorithm	distributed systems, dynamic load balancing, client-server assignment, networking, network traffic, server load, genetic algorithm	23, 6, 87-98	https://doi.org/10.3166/ISI.23.6.87-98	Gopi, A. P., Lakshman Narayana, V., Ashok Kumar, N. (2018). Dynamic load balancing for client server assignment in distributed system using genetical gorithm. Ingénierie des Syst èmes d'Information, Vol. 23, No. 6, pp. 87-98. https://doi.org/10.3166/ISI.23.6.87-98
709	Liu, S., Yang F., Wang, S.X., Chen, Y.	Automatic generation of bas-relief on 3D models based on 2D images for rhinoceros	Rhinoscript, Bas-Relief, 2D Images, Surface	23, 6, 99-113	https://doi.org/10.3166/ISI.23.6.99-113	Liu, S., Yang, F., Wang, S.X., Chen, Y. (2018). Automatic generation of bas-relief on 3D models based on 2D images for rhinoceros. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 99-113. https://doi.org/10.3166/ISI.23.6.99-113
710	Lakshman Narayana, V., Peda gopi, A., Ashok Kumar, N.	Different techniques for hiding the text information using text steganography techniques: A survey	steganography, hiding text, text steganography, hiding techniques, randomized techniques	23, 6, 115-125	https://doi.org/10.3166/ISI.23.6.115-125	Lakshman Narayana, V., Peda gopi, A., Ashok Kumar, N. (2018). Different techniques for hiding the text information using text steganography techniques: A survey. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 115-125. https://doi.org/10.3166/ISI.23.6.115-125
711	Xie, Z.L., Yin, H.K.	Selection of optimal cloud services based on quality of service ontology	Analytic Hierarchy Process (AHP), cloud services, optimization model, QoS ontology	23, 6, 127-141	https://doi.org/10.3166/ISI.23.6.127-141	Xie, Z.L., Yin, H.K. (2018). Selection of optimal cloud services based on quality of service ontology. Ingénierie des Systèmes d 'Information, Vol. 23, No. 6, pp. 127-141. https://doi.org/10.3166/ISI.23.6.127-141
712	Li, B., Zhang, C., Han, C., Bai, B.X.	Fingertip data fusion of Kinect v2 and leap motion in unity	fingertip recognition, joint calibration, data fusion, natural human-computer interaction, leap motion, kinect v2	23, 6, 143-159	https://doi.org/10.3166/ISI.23.6.143-159	Li, B., Zhang, C., Han, C., Bai, B.X. (2018). Fingertip data fusion of Kinect v2 and leap motion in unity. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 143-159.https://doi.org/10.3166/ISI.23.6.143-159
713	Lakshmipathi Anantha, N., Battula, B.P.	Deep convolutional neural networks for product recommendation	recommender system, convolutional neural network, content-based filtering, ranking	23, 6, 161-172	https://doi.org/10.3166/ISI.23.6.161-172	Lakshmipathi Anantha, N., Battula, B.P. (2018). Deep convolutional neural networks for product recommendation. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 161-172. https://doi.org/10.3166/ISI.23.6.161-172
714	Nagi Reddy, V., Subba Rao, P.	Comparative analysis of breast cancer detection using K-means and FCM & EM segmentation techniques	SFCM, mammogram image, fuzzy, k-means, EM algorithm	23, 6, 173-187	https://doi.org/10.3166/ISI.23.6.173-187	Nagi Reddy, V., Subba Rao, P. (2018). Comparative analysis of breast cancer detection using K-means and FCM & EM segmentation techniques. Ingénierie des Systèmes d' Information, Vol. 23, No. 6, pp. 173-187. https://doi.org/10.3166/ISI.23.6.173-187
715	Yu, J., Wang, H.	A deep neural network-based algorithm for safe release of big data under random noise disturbance	Deep Neural Network (DNN), big data, privacy preserving, differential privacy	23, 6, 189-200	https://doi.org/10.3166/ISI.23.6.189-200	Yu, J., Wang, H. (2018). A deep neural network-based algorithm for safe release of big data under random noise disturbance. Ingénierie des Systèmes d'Information, Vol. 23, No. 6, pp. 189-200. https://doi.org/10.3166/ISI.23.6.189-200
716	Lassandro, P., Zonno, M.	A work-related learning project for energy efficiency evaluation and indoor comfort of school buildings	energy efficiency, indoor comfort, ICT, SAPR, school building, virtual tour	23, 5, 7-27	https://doi.org/10.3166/ISI.23.5.7-27	Lassandro, P., Zonno, M. (2018). A work-related learning project for energy efficiency evaluation and indoor comfort of school buildings. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 7-27. https://doi.org/10.3166/ISI.23.5.7-27
717	Mebarek, B., Keddam, M., Aboshighiba, H.	LS-SVM approach for modeling the growthe kinetics of FeB and Fe2B layers formed on Armco iron	LS-SVM, prediction, boronizing, model, simulation	23, 5, 29-41	https://doi.org/10.3166/ISI.23.5.29-41	Mebarek, B., Keddam, M., Aboshighiba, H. (2018). LS-SVM approach for modeling the growthe kinetics of FeB and Fe2B layers formed on Armco iron. Ingénierie des Systèmes d' Information, Vol. 23, No. 5, pp. 29-41. https://doi.org/10.3166/ISI.23.5.29-41
718	Xie, Z., Zhu, Z.H., Fu, J.Y., Yang, J.S., Peng, B.	Geological logging of tunnel surrounding rock based on multi-view geometry and image stitching	tunnel construction, computer vision, photographic geological logging	23, 5, 43-59	https://doi.org/10.3166/ISI.23.5.43-59	Xie, Z., Zhu, Z.H., Fu, J.Y., Yang, J.S., Peng, B. (2018). Geological logging of tunnel surrounding rock based on multi-view geometry and image stitching. Ingénierie des Systèmes d' Information, Vol. 23, No. 5, pp. 43-59. https://doi.org/10.3166/ISI.23.5.43-59
719	Kanagasabai, L.	Reduction of real power loss by white male deer mating based optimization algorithm	optimal reactive power, transmission loss, white deer, swarm optimization	23, 5, 61-68	https://doi.org/10.3166/ISI.23.5.61-68	Kanagasabai, L. (2018). Reduction of real power loss by white male deer mating based optimization algorithm. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 61-68. https://doi.org/10.3166/ISI.23.5.61-68
720	Miao, Y.S., Wu, H.R., Zhu, H.J., Song, Y.L.	Localization accuracy of farmland wireless sensor network localization algorithm based on received signal strength indicator	Farmland Wireless Sensor Network (WSN), Localization Methods, Received Signal Strength Indicator (RSSI), range based localization, path loss exponent	23, 5, 69-80	https://doi.org/10.3166/ISI.23.5.69-80	Miao, Y.S., Wu, H.R., Zhu, H.J., Song, Y.L. (2018). Localization accuracy of farmland wireless sensor network localization algorithm based on received signal strength indicator. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 69-80. https://doi.org/10.3166/ISI.23.5.69-80

721	Pandi, C., Dandibhotla, T.S., Bulusu, V.V.	Reputation based online product recommendations	product aspects, opinions, aspect rank, frequent aspects, aspect reputation, product similarity, product recommendations	23, 5, 81-103	https://doi.org/10.3166/ ISI.23.5.81-103	Pandi, C., Dandibhotla, T.S., Bulusu, V.V. (2018). Reputation based online product recommendations. Ingénierie des Systè mes d'Information, Vol. 23, No. 5, pp. 81-103. https://doi.org/10.3166/ ISI.23.5.81-103
722	Zheng, B.H., Zhong, Y.F.	Study on the impacts of urban network evolution on urban wind and heat environment based on improved genetic algorithm	Urban Network, Urban Space, Wind and Heat Environment (W&HE), Urban Heat Island (UH) Effect, Improved Genetic Algorithm (GA), Backpropagation Neural Network (BPNN)	23, 5, 105-119	https://doi.org/10.3166/ISI.23.5.105-119	Zheng, B.H., Zhong, Y.F. (2018). Study on the impacts of urban network evolution on urban wind and heat environment based on improved genetic algorithm. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 105-119. https://doi.org/10.3166/ISI.23.5.105-119
723	Bikku, T.	A new weighted based frequent and infrequent pattern mining method on real-time E-commerce	market data, infrequent association rules, support	23, 5, 121-138	https://doi.org/10.3166/ISI.23.5.121-138	Bikku, T. (2018). A new weighted based frequent and infrequent pattern mining method on real-time E-commerce. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 121-138. https://doi.org/10.3166/ISI.23.5.121-138
724	Deng, X.Y., Wang, C.	A hybrid collaborative filtering model with context and folksonomy for social recommendation	collaborative filtering, hybrid recommendation, context, folksonomy, social tag	23, 5, 139-157	https://doi.org/10.3166/ ISI.23.5.139-157	Deng, X.Y., Wang, C. (2018). A hybrid collaborative filtering model with context and folksonomy for social recommendation. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 139-157. https://doi.org/10.3166/ ISI.23.5.139-157
725	Li, Y.	Design and implementation of intelligent travel recommendation system based on internet of things	internet of things, intelligent travel, recommendation platform, hadoop	23, 5, 159-173	https://doi.org/10.3166/ISI.23.5.159-173	Li, Y. (2018). Design and implementation of intelligent travel recommendation system based on internet of things. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 159-173. https://doi.org/10.3166/ISI.23.5.159-173
726	Mahesh, V., Mahesh, V., Teggi, I., Bansal, A., Manjesh, S.	Product design methodology applied in developing a liquid petroleum gas level indicator using android technology	cylindre GPL, conception produit, android	23, 5, 175-184	https://doi.org/10.3166/ISI.23.5.175-184	Mahesh, V., Mahesh, V., Teggi, I., Bansal, A., Manjesh, S. (2018). Product design methodology applied in developing a liquid petroleum gas level indicator using android technology. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 175-184. https://doi.org/10.3166/ISI.23.5.175-184
727	Yuan, B., Wang, F.S., Bao, D.	Design and application of a wavelet neural network program for evaluation of goodwill value in corporate intellectual capital	Wavelet Neural Network (WNN), Corporate Intellectual Capital (CIC), goodwill value	23, 5, 185-200	https://doi.org/10.3166/ISI.23.5.185-200	Yuan, B., Wang, F.S., Bao, D. (2018). Design and application of a wavelet neural network program for evaluation of goodwill value in corporate intellectual capital. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 185-200. https://doi.org/10.3166/ISI.23.5.185-200
728	Naresh, A., Syed, S.A., Prasad, B.V.V.S.	Mining user actions with fuzzy related data security conviction in cloud computing	cloud computing, security, privacy, trust, fuzzy analysis, pattern mining	23, 5, 201-212	https://doi.org/10.3166/ISI.23.5.201-212	Naresh, A., Syed, S.A., Prasad, B.V.V.S. (2018). Mining user actions with fuzzy related data security conviction in cloud computing. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 201-212.https://doi.org/10.3166/ISI.23.5.201-212
729	Singamaneni, K.K., Naidu, P.S.	Secure key management in cloud environment using quantum cryptography	cloud computing, cloud encryption model, quantum key allocation	23, 5, 213-222	https://doi.org/10.3166/ISI.23.5.213-222	Singamaneni, K.K., Naidu, P.S. (2018). Secure key management in cloud environment using quantum cryptography. Ingénierie des Systèmes d'Information, Vol. 23, No. 5, pp. 213-222. https://doi.org/10.3166/ISI.23.5.213-222
730	Gandon, F.	A survey of the first 20 years of research on semantic web and linked data	linked data, semantic web, survey, web of data	23, 3-4, 11-56	https://doi.org/10.3166/ISI.23.3-4.11-56	Gandon, F. (2018). A survey of the first 20 years of research on semantic web and linked data. Ingénierie des Systèmes d' Information, Vol. 23, No. 3-4, pp. 11-56. https://doi.org/10.3166/ISI.23.3-4.11-56
731	Duchateau, F., Lumineau, N., Aalberg, T.	Impact of open and linked data on bibliographic catalogs	data integration, integrated library systems, linked open data, semantic enrichment	23, 3-4, 57-93	https://doi.org/10.3166/ISI.23.3-4.57-93	Duchateau, F., Lumineau, N., Aalberg, T. (2018). Impact of open and linked data on bibliographic catalogs. Ingénierie des Systèmes d'Information, Vol. 23, No. 3-4, pp. 57-93. https://doi.org/10.3166/ISI.23.3-4.57-93
732	Raad, J., Beek, W., Pernelle, N., Saïs, F., Van Harmelen, F.	Detection of false identity links using community detection in identity graphs	Communities, Identity, Owl: same As, Web of data	23, 3-4, 95-118	https://doi.org/10.3166/ISI.23.3-4.95-118	Raad, J., Beek, W., Pernelle, N., Saïs, F., Van Harmelen, F. (2018). Detection of false identity links using community detection in identity graphs. Ingénierie des Systèmes d' Information, Vol. 23, No. 3-4, pp. 95-118. https://doi.org/10.3166/ISI.23.3-4.95-118
733	Mendonça, M., Aguilar, J., Perozo, N.	Application of category theory	meta-ontologies, meta-concepts, category theory, collective intelligence	23, 2, 11-38	https://doi.org/10.3166/isi.23.2.11-38	Mendonça, M., Aguilar, J., Perozo, N. (2018). Application of category theory. Ingénierie des Systèmes d'Information, Vol. 23, No. 2, pp. 11-38. https://doi.org/10.3166/isi.23.2.11-38
734	Dong, T., Lamolle, M., Le Duc, C., Bonnot, P.	Moteur de révision d'ontologie en SHIQ	collective intelligence, ontology, revision, reasoning, web services	23, 2, 39-59	https://doi.org/10.3166/isi.23.2.39-59	Dong, T., Lamolle, M., Le Duc, C., Bonnot, P. (2018). Moteur de révision d'ontologie en SHIQ. Ingénierie des Systèmes d' Information, Vol. 23, No. 2, pp. 39-59. https://doi.org/10.3166/isi.23.2.39-59
735	Monticolo, D., Gabriel, A., Chavez Barrios, P.	Une approche de conception de systè mes multi-agents dédiés à la gestion des connaissances	organizational model, multi agent system, knowledge management	23, 2, 61-88	https://doi.org/10.3166/isi.23.2.61-88	Monticolo, D., Gabriel, A., Chavez Barrios, P. (2018). Une approche de conception de systèmes multi-agents dédiés à la gestion des connaissances. Ingénierie des Systèmes d' Information, Vol. 23, No. 2, pp. 61-88. https://doi.org/10.3166/isi.23.2.61-88

736	Anghour, A., Lamolle, M., Belhadj, F., Boyer, V.	Appprentissage adaptatif temps réels par système multi-agent. Gestion de parcours individuels et collaboratifs	adaptive learning, recommendation of pedagogical ressources, multi-usres context, web-based learning environment	23, 2, 89-109	https://doi.org/10.3166/isi.23.2.89-109	Anghour, A., Lamolle, M., Belhadj, F., Boyer, V. (2018). Appprentissage adaptatif temps réels par système multi-agent. Gestion de parcours individuels et collaboratifs. Ingénierie des Systèmes d'Information, Vol. 23, No. 2, pp. 89-109. https://doi.org/10.3166/isi.23.2.89-109
737	Bonacin, R., Dos Reis, J.C., Mendes Perciani, E., Nabuco, O.	Exploring intentions on electronic health records retrieval. Studies with collaborative scenarios	information retrieval, electronic health records, information sharing, query rxpansion, intentions, illocutions, speech acts theory	23, 2, 111-135	https://doi.org/10.3166/isi.23.2.111-135	Bonacin, R., Dos Reis, J.C., Mendes Perciani, E., Nabuco, O. (2018). Exploring intentions on electronic health records retrieval. Studies with collaborative scenarios. Ingénierie des Systèmes d'Information, Vol. 23, No. 2, pp. 111-135. https://doi.org/10.3166/isi.23.2.111-135
738	Ponsard, C., Touzani, M., Majchrowski, A.	How to conduct big data projects: Methods overview and industrial feedback	adoption process, agile methods, big data, case study, projet management	23, 1, 9-33	https://doi.org/10.3166/ISI.23.1.9-33	Ponsard, C., Touzani, M., Majchrowski, A. (2018). How to conduct big data projects: Methods overview and industrial feedback. Ingénierie des Systèmes d'Information, Vol. 23, No. 1, pp. 9-33. https://doi.org/10.3166/ISI.23.1.9-33
739	Miralles, A., Huchard, M., Carbonnel, J., Nebut, C.	Union and intersection of models for information systems analysis	class model, class model integration, class model intersection, class model matching, class model union, formal concept analysis, information system, UML	23, 1, 35-62	https://doi.org/10.3166/ISI.23.1.35-62	Miralles, A., Huchard, M., Carbonnel, J., Nebut, C. (2018). Union and intersection of models for information systems analysis. Ingénierie des Systèmes d'Information, Vol. 23, No. 1, pp. 35-62. https://doi.org/10.3166/ISI.23.1.35-62
740	Fredj, F.B., Lammari, N., Comyn-Wattiau, I.	Anonymizing data by generalization. A guided method	anonymization, guidance, methodology, model-driven approach, ontology, privacy, security	23, 1, 63-87	https://doi.org/10.3166/ISI.23.1.63-87	Fredj, F.B., Lammari, N., Comyn-Wattiau, I. (2018). Anonymizing data by generalization. A guided method. Ingé nierie des Systèmes d'Information, Vol. 23, No. 1, pp. 63-87. https://doi.org/10.3166/ISI.23.1.63-87
741	Mothe, J., Rakotonirina, A.J.	Contextual collaborative filtering. A LDA-based approach	collaborative filtering, hybrid recommender system, information retrieval, information systems, latent dirichlet allocation, recommender systems	23, 1, 89-109	https://doi.org/10.3166/ISI.23.1.89-109	Mothe, J., Rakotonirina, A.J. (2018). Contextual collaborative filtering. A LDA-based approach. Ingénierie des Systèmes d' Information, Vol. 23, No. 1, pp. 89-109. https://doi.org/10.3166/ISI.23.1.89-109
742	Ferrouk, M., Boubekeur, F., Belkacemi, L.	Influence dans Twitter. Définition et utilisation en recherche d'information	influence, twitter social network, social information retrieval, pagerank.	22, 6, 9-36	https://doi.org/10.3166/isi.22.6.9-36	Ferrouk, M., Boubekeur, F., Belkacemi, L. (2017). Influence dans Twitter. Définition et utilisation en recherche d' information. Ingénierie des Systèmes d'Information, Vol. 22, No. 6, pp. 9-36. https://doi.org/10.3166/isi.22.6.9-36
743	Othman, R., Belkaroui, R., Faiz, R.	Nouvelle approche anaphorique pour le résumé automatique des textes d' opinions dans les tweets	opinion summarization, twitter, conversations, anaphora resolution	22, 6, 37-51	https://doi.org/10.3166/isi.22.6.37-51	Othman, R., Belkaroui, R., Faiz, R. (2017). Nouvelle approche anaphorique pour le résumé automatique des textes d'opinions dans les tweets. Ingénierie des Systèmes d'Information, Vol. 22, No. 6, pp. 37-51. https://doi.org/10.3166/isi.22.6.37-51
744	Abel, M.H., Saleh, M.	MEMORAe : un système d'information support d'un éco-système apprenant	learning ecosystem, organizational learning, knowledge management, collaborative platform	22, 6, 53-69	https://doi.org/10.3166/isi.22.6.53-69	Abel, M.H., Saleh, M. (2017). MEMORAe: un système d' information support d'un éco-système apprenant. Ingénierie des Systèmes d'Information, Vol. 22, No. 6, pp. 53-69. https://doi.org/10.3166/isi.22.6.53-69
745	Bouzayane, S., Saad, I., Kassel, G., Gargouri, F.	Recommandation basée sur l'aide multicritère à la décision pour personnaliser l'échange d'information	recommender system, information exchange, support process, knowledge transfer, leader learner, MOOC	22, 6, 71-91	https://doi.org/10.3166/isi.22.6.71-91	Bouzayane, S., Saad, I., Kassel, G., Gargouri, F. (2017). Recommandation basée sur l'aide multicritère à la décision pour personnaliser l'échange d'information. Ingénierie des Syst èmes d'Information, Vol. 22, No. 6, pp. 71-91. https://doi.org/10.3166/isi.22.6.71-91
746	Arru, M., Negre, E., Rosenthal-Sabroux, C.	Alerter ou ne pas alerter ? Une inté gration de connaissances sur les comportements des populations dans les systèmes d'alerte	warning systems, data analysis, behaviors, populations, knowledge	22, 6, 93-117	https://doi.org/10.3166/isi.22.6.93-117	Arru, M., Negre, E., Rosenthal-Sabroux, C. (2017). Alerter ou ne pas alerter? Une intégration de connaissances sur les comportements des populations dans les systèmes d'alerte. Ing énierie des Systèmes d'Information, Vol. 22, No. 6, pp. 93-117. https://doi.org/10.3166/isi.22.6.93-117
747	Joliveau, T., Noucher, M., Couderchet, L., Caquard, S.	Enseigner le géoweb par la pratique et la critique	criticism, geoweb, GIS, online learning, vocational education	22, 5, 11-33	https://doi.org/10.3166/ISI.22.5.11-33	Joliveau, T., Noucher, M., Couderchet, L., Caquard, S. (2017). Enseigner le géoweb par la pratique et la critique. Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 11-33. https://doi.org/10.3166/ISI.22.5.11-33
748	Chopin, C., Genevois, S.	Géomatique et enseignement secondaire	data sets for education, geographic information; geomatic, open data, pedagogical scenarization, teachers practices	22, 5, 35-52	https://doi.org/10.3166/ISI.22.5.35-52	Chopin, C., Genevois, S. (2017). Géomatique et enseignement secondaire. Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 35-52. https://doi.org/10.3166/ISI.22.5.35-52
749	Mericskay, B.	Enjeux et perspectives de l' enseignement des SIG aux géographes et aux urbanistes	geography, GIS, pedagogy, planning, teaching, university	22, 5, 53-58	https://doi.org/10.3166/ISI.22.5.53-58	Mericskay, B. (2017). Enjeux et perspectives de l' enseignement des SIG aux géographes et aux urbanistes. Ingé nierie des Systèmes d'Information, Vol. 22, No. 5, pp. 53-58. https://doi.org/10.3166/ISI.22.5.53-58
750	Puel, J.B., Mathieu, B., Crouzil, A.	Applications mobile et Web pour les observatoires photographiques du paysage	augmented reality, landscape reading, mobile app, photographic landscape observatory, serious games, web app	22, 5, 59-68	https://doi.org/10.3166/ISI.22.5.59-68	Puel, J.B., Mathieu, B., Crouzil, A. (2017). Applications mobile et Web pour les observatoires photographiques du paysage. Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 59-68. https://doi.org/10.3166/ISI.22.5.59-68

751	Foch, H.	Agriculture de précision pour l'éducation au développement durable (AGRIPEDD)	académie de toulouse, airbus defence, EI purpan, farmstar, precision farming, space, sustainable development	22, 5, 69-89	https://doi.org/10.3166/ISI.22.5.69-89	Foch, H. (2017). Agriculture de précision pour l'éducation au développement durable (AGRIPEDD). Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 69-89. https://doi.org/10.3166/ISI.22.5.69-89
752	Mothe, J., Rieu, G.	FabSpace 2.0, utilisation d'images d'observation de la Terre et des océans en classe	copernicus program, earth observation images, Fabspace 2.0, technical platform, use in education of observation images	22, 5, 91-104	https://doi.org/10.3166/ISI.22.5.91-104	Mothe, J., Rieu, G. (2017). FabSpace 2.0, utilisation d'images d'observation de la Terre et des océans en classe. Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 91-104. https://doi.org/10.3166/ISI.22.5.91-104
753	Renard, F., Alonso L.	La combinaison de l'image satellitaire avec les données citoyennes pour la mesure de l'îlot de chaleur urbain	landsat, participatory measurement, satellite imagery, temperatures, urban heat island	22, 5, 105-111	https://doi.org/10.3166/ISI.22.5.105-111	Renard, F., Alonso, L. (2017). La combinaison de l'image satellitaire avec les données citoyennes pour la mesure de l'îlot de chaleur urbain. Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 105-111. https://doi.org/10.3166/ISI.22.5.105-111
754	Pache, A., Ferré, S.J.	Aborder les flux d'informations en classe	citizenship, geography, information flow, mobility	22, 5, 113-125	https://doi.org/10.3166/ISI.22.5.113-125	Pache, A., Ferré, S.J. (2017). Aborder les flux d'informations en classe. Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 113-125. https://doi.org/10.3166/ISI.22.5.113-125
755	Gazel, H.	G2I: Géographie, informatique et internet	geography, informatics, internet, learning progress, research-teaching transfer, urban planning workshop	22, 5, 127-143	https://doi.org/10.3166/ISI.22.5.127-143	Gazel, H. (2017). G2I: Géographie, informatique et internet. Ingénierie des Systèmes d'Information, Vol. 22, No. 5, pp. 127-143. https://doi.org/10.3166/ISI.22.5.127-143
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757	Touzani, M., Ponsard, C.	Modelling and analysis techniques for spatio-temporal requirements	argumentation, design decision, goal orientation, process guidance, requirements engineering, spatio-temporal requirements, traceability	22, 4, 43-75	https://doi.org/10.3166/ISI.22.2.43-75	Touzani, M., Ponsard, C. (2017). Modelling and analysis techniques for spatio-temporal requirements. Ingénierie des Systèmes d'Information, Vol. 22, No. 4, pp. 43-75. https://doi.org/10.3166/ISI.22.2.43-75
758	Grati, R., Boukadi, K., Abdallah, H.B.	A decision-making adaptation approach based on fuzzy logic systems for composite SaaS	adaptation, cloud, composite saas, fuzzy system	22, 4, 77-106	https://doi.org/10.3166/ISI.22.4.77-106	Grati, R., Boukadi, K., Abdallah, H.B. (2017). A decision-making adaptation approach based on fuzzy logic systems for composite SaaS. Ingénierie des Systèmes d'Information, Vol. 22, No. 4, pp. 77-106. https://doi.org/10.3166/ISI.22.4.77-106
759	Dhouib, A., Trabelsi, A., Kolski, C., Neji, M.	Prioritizing the usability criteria of adaptive user interfaces of information systems based on ISO/IEC 25040 standard	ADAPTIVE USER INTERFACE, ISO/IEC 25040 standard, layered evaluation, multi-criteria decision analysis method, usability criteria	22, 4, 107-128	https://doi.org/10.3166/ISI.22.4.107-128	Dhouib, A., Trabelsi, A., Kolski, C., Neji, M. (2017). Prioritizing the usability criteria of adaptive user interfaces of information systems based on ISO/IEC 25040 standard. Ingénierie des Systèmes d'Information, Vol. 22, No. 4, pp. 107-128. https://doi.org/10.3166/ISI.22.4.107-128
760	García Frey, A., Dupuy-Chessa, S., Calvary G.	Model based self-explanatory user interfaces	model-driven engineering, models at runtime, self explanation, user interfaces	22, 4, 129-157	https://doi.org/10.3166/ISI.22.4.129-157	García Frey, A., Dupuy-Chessa, S., Calvary, G. (2017). Model based self-explanatory user interfaces. Ingénierie des Systèmes d'Information, Vol. 22, No. 4, pp. 129-157. https://doi.org/10.3166/ISI.22.4.129-157
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762	Raynaut, W., Soule-Dupuy, C., Valles-Parlangeau, N.	Dataset dissimilarity	algorithm selection, dataset characterization, dissimilarity, meta-features, meta-learning	22, 3, 35-63	https://doi.org/10.3166/ISI.22.3.35-63	Raynaut, W., Soule-Dupuy, C., Valles-Parlangeau, N. (2017). Dataset dissimilarity. Ingénierie des Systèmes d'Information, Vol. 22, No. 3, pp.35-63. https://doi.org/10.3166/ISI.22.3.35-63
763	Washha, M., Mezghani, M., Sèdes, F.	Behavioural account-based features for filtering out social spammers in large-scale twitter data collections	social network, spam, twitter	22, 3, 65-88	https://doi.org/10.3166/ISI.22.3.65-88	Washha, M., Mezghani, M., Sèdes, F. (2017). Behavioural account-based features for filtering out social spammers in large-scale twitter data collections. Ingénierie des Systèmes d'Information, Vol. 22, No. 3, pp.65-88. https://doi.org/10.3166/ISI.22.3.65-88
764	Li, Y., Constantin, C., du Mouza C.	A block-based edge-partitionning for random walks algorithms in large social graphs	graph partitioning, performance, social networks	22, 3, 89-113	https://doi.org/10.3166/ISI.22.3.89-113	Li, Y., Constantin, C., du Mouza, C. (2017). A block-based edge-partitionning for random walks algorithms in large social graphs. Ingénierie des Systèmes d'Information, Vol. 22, No. 3, pp. 89-113. https://doi.org/10.3166/ISI.22.3.89-113
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767	Chahbandarian, G., Bricon-Souf, N., Megdiche, I., Bastide, R., Steinbach, J.C.	Predicting the encoding of secondary diagnoses. An experience based on decision trees	Coding ICD-10, data mining, decision tree, machine learning, PMSI, secondary diagnoses	22, 2, 69-94	https://doi.org/10.3166/ISI.22.2.69-94	Chahbandarian, G., Bricon-Souf, N., Megdiche, I., Bastide, R., Steinbach, J.C. (2017). Predicting the encoding of secondary diagnoses. An experience based on decision trees, Ingénierie des Systèmes d'Information, Vol. 22, No. 2, pp. 69-94. https://doi.org/10.3166/ISI.22.2.69-94
768	Polacsek, T.	Justification diagram. A new kind of diagram for validation, accreditation and certification	argumentation, requirements, verification et validation	22, 2, 95-119	https://doi.org/10.3166/ISI.22.2.95-119	Polacsek, T. (2017). Justification diagram. A new kind of diagram for validation, accreditation and certification. Ingé nierie des Systèmes d'Information, Vol. 22, No. 2, pp. 95-119. https://doi.org/10.3166/ISI.22.2.95-119
769	Favre, C., Artaud, C., Duffau, C., Fraisier, O., Kombi, R.K.	Forum jeunes chercheurs of inforsid 2016	information systems, inforsid, PhD symposium	22, 2, 121-147	https://doi.org/10.3166/ISI.22.2.121-147	Favre, C., Artaud, C., Duffau, C., Fraisier, O., Kombi, R.K. (2017). Forum jeunes chercheurs of inforsid 2016. Ingénierie des Systèmes d'Information, Vol. 22, No. 2, pp. 121-147. https://doi.org/10.3166/ISI.22.2.121-147
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772	Goudalo, W., Kolski, C., Vanderhaegen, F.	Towards an advanced enterprise it security engineering. A joint approach to security, usability and resilience in sociotechnical systems	BPMN, conceptual model, design patterns, enterprise is, joint analysis, metrics, privacy, resilience, security, semantics, sociotechnical systems, UML, usability, user experience	22, 1, 65-107	https://doi.org/10.3166/ISI.22.1.65-107	Goudalo, W., Kolski, C., Vanderhaegen, F. (2017). Towards an advanced enterprise it security engineering. A joint approach to security, usability and resilience in sociotechnical systems. Ingé nierie des Systèmes d'Information, Vol. 22, No. 1, pp. 65-107. https://doi.org/10.3166/ISI.22.1.65-107
773	Rajaonah, B.	A view of trust and information system security under the perspective of critical infrastructure protection	critical infrastructure protection, information system, security, transdisciplinarity, trust	22, 1, 109-133	https://doi.org/10.3166/ISI.22.1.109-133	Rajaonah, B. (2017). A view of trust and information system security under the perspective of critical infrastructure protection. Ingénierie des Systèmes d'Information, Vol. 22, No. 1, pp. 109-133. https://doi.org/10.3166/ISI.22.1.109-133