

Preface

This book constitutes the refereed proceedings of the First Joint Workshop on AI in Health (AIH18), held in Stockholm, Sweden, on July 13 and 14. This workshop consolidates the Collaborative Agents Research & Development, the Joint International Workshop KR4HC-ProHealth and Workshop on Artificial Intelligence For Healthcare (AI4HC) in a single event, co-located with the Federated AI Meeting. It aims to bring together communities from Machine Learning and Artificial Intelligence applied in Health and Medicine; in particular it fosters discussion and collaboration among the communities from the constituting workshops: CARE¹, KR4HC², ProHealth³, AID⁴, A2HC⁵ and CBRHS⁶, which were previously co-located with different conferences in the area, most notably previous editions of AAMAS, ICCBR, ICML, IJCAI and ECAI.

The workshop aims to discuss AI technologies with medical applications, with a particular focus on the following three tracks:

- Agents in Healthcare
- Data Science and Decision Systems in Medicine
- Knowledge Management in Healthcare

AIH provides a discussion forum for the most recent and innovative work on the study and application of AI technologies in compelling healthcare scenarios. It covers a wide spectrum of applications, from those aimed at easing and supporting healthcare professionals' work to those devoted to improving patients' lives. The event discusses computational models, social computing, and agent-based solutions applied to practical solutions that address topics related to Healthcare.

AIH received 42 submissions through the workshop website. All submissions were reviewed by at least three different reviewers, and the program committee subsequently selected 14 full and 12 short presentations.

We want to say thank you to all the volunteers who made the workshops possible by helping to organize and peer review the submissions, and to EasyChair for the conference management system, and to CEUR-WS for providing the publishing platform.

¹ Collaborative Agents Research & Development

² Knowledge Representation for Healthcare

³ Process-oriented Information Systems in Healthcare

⁴ Artificial Intelligence in Diabetes

⁵ Agents Applied in Healthcare

⁶ Case-Based Reasoning in the Health Sciences

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