

Maggie X. Cheng

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Education

- University of Minnesota-Twin Cities, M.S. and Ph.D.
- Beijing University of Aeronautics and Astronautics, B.E. and M.E.

Employment

- 09/2020 – present, Professor, Applied Math, IIT
- 10/2018 – present, Director, Center for Interdisciplinary Scientific Computation (CISC), IIT
- 09/2018 – 08/2020, Associate Professor, Applied Math, IIT
- 09/2016 – 08/2018, Associate Professor, Martin Tuchman School of Management, NJIT
- 09/2009 – 08/2016, Associate Professor, Department of Computer Science, Missouri University of Science and Technology
- 08/2003 – 08/2009, Assistant Professor, Department of Computer Science, Missouri University of Science and Technology

Research Interests

- Statistical Learning, Graph Learning, Physics-Informed Deep Learning
- Graph Theory, Complex Network Analysis

Applications:

- Cyber-Physical Systems: Anomaly Detection and Diagnosis, Causal Analysis, Attack Detection and Identification, User Cyber Behavioral Analysis
- Social Networks: Event Detection, Hidden Network Detection, Community Detection
- Network Security: Attack Detection, Vulnerability Analysis
- Time-Varying Complex Network Analysis, Change Detection
- Network Optimization, Resource Allocation

Professional Service

- Associate Editor, Frontiers in Big Data
- Associate Editor, IEEE Journal of Biomedical and Health Informatics (J-BHI)
- Associate Editor, International Journal of Sensor Networks