

New Faculty Highlights Schedule

Thursday, February 9 - Room 204A

9:30-10:45am

Author

YooJung Choi
Sarah Keren
Aditya Grover

Title

Probabilistic Reasoning and Learning for Trustworthy AI
Better Environments for Better AI
Generative Decision Making Under Uncertainty

11:15- 12:20pm

Yingzhen Li

Robust and Adaptive Deep Learning via Bayesian Principles
Combating Disinformation on Social Media and Its Challenges: A Computational Perspective
Advances in AI for Safety, Equity, and Well-Being on Web and Social Media: Detection, Robustness, Attribution, and Mitigation

Kai Shu

Srijan Kumar

2:00-3:15pm

Jiajun Wu

Learning to See the Physical World

Sarath Sreedharan
Sijia Liu

Human-Aware AI – A Foundational Framework for Human-AI Interaction
General and Scalable Optimization for Robust AI

3:45-5:00pm

Andrew Perrault

Monitoring and Intervening on Large Populations of Weakly Coupled Processes with Social Impact Applications
Safety Validation of Learning-Based Autonomous Systems: A Multi-Fidelity Approach
A New Challenge in Policy Evaluation

Ali Baheri

Shangdong Zhang

Friday, February 10 - Room 204A

9:30-10:45am

Author

Chuxu Zhang
Karthik Desingh

Title

Towards Societal Impact of AI
Perception for General-purpose Robot Manipulation

11:15- 12:20pm

Manas Gaur
Wenhao Luo

Targeted Knowledge Infusion To Make Conversational AI Explainable and Safe
Towards Safe and Resilient Autonomy in Multi-Robot Systems

Hongyang R. Zhang

Information Transfer in Multitask Learning, Data Augmentation, and Beyond

2:00-3:15pm

Mohammad Rostami
Sandhya Saisubramanian
Yapeng Tian

Internal Robust Representations for Domain Generalization
Planning and Learning for Reliable Autonomy in the Open World
Towards Unified, Explainable, and Robust Multisensory Perception

3:45-5:00pm

Alvaro Torralba
Leilani H. Gilpin
Yali Du

Reshaping State-Space Search: From Dominance to Contrastive Analysis
Accountability Layers: Explaining Complex System Failures by Parts
Cooperative Multi-Agent Learning in a Complex World: Challenges and Solutions

Saturday, February 11 - Room 204A

9:30-10:45am

Author

Yuke Zhu

Title

Building Compositional Robot Autonomy with Modularity and Abstraction

Serena Villata
Jiaoyang Li

Artificial Intelligence at the Service of Society to Analyse Human Arguments
Intelligent Planning for Large-Scale Multi-Robot Coordination

11:15- 12:20pm

Hongchang Gao

Distributed Stochastic Nested Optimization for Emerging Machine Learning Models: Algorithm and Theory

Elias B. Khajil
Bryan Wilder

Recent Developments in Data-Driven Algorithms for Discrete Optimization
AI for Equitable, Data-Driven Decisions in Public Health

2:00-3:15pm

Fernando P. Santos
Yan Yan

Dynamics of Cooperation and Conflict in Multiagent Systems
Enhance Robustness of Machine Learning with Improved Efficiency
The Analysis of Deep Neural Networks by Information Theory: From Explainability to Generalization

Shujian Yu

Sunday, February 12 - Room 204A

9:30-10:45am

Author

Andrew Cropper
Azanji Jiomekong

Title

The Automatic Computer Scientist
Food Information Engineering: a systematic literature review