

## IEEE Distinguished Lecture: Improved reinforcement learning with applications in robotics, games, and quantum engineering

Sponsored by IEEE Systems, Man and Cybernetics Society (SMC) Chapter, co-sponsored by IEEE Robotics and Automation (RA) Society Chapter and Computer Society Chapter of IEEE North Jersey Section, Drs. Mengchu Zhou and Weitian Wang successfully organized an IEEE Distinguished Lecture at NJIT on April 22, 2024. The invited speaker Dr. Daoyi Dong (IEEE Fellow, ARC Future Fellow and Professor of the Australian National University) gave a fantastic talk on improved reinforcement learning with applications in robotics, games, and quantum engineering. 48 participants including faculty members, students, scientists, and engineers from national and international research institutes, organizations, and other communities attended this event in person or online. In this talk, Dr. Dong presented state-of-the-art research findings and insights into reinforcement learning in diverse applications.

Dr. Daoyi Dong is currently a Professor at the Australian National University. His research interests include machine learning, quantum control, system identification, and renewable energy. Dr. Dong was elevated as an IEEE Fellow for contributions to quantum systems control and reinforcement learning.

This IEEE Distinguished Lecture has well disseminated the research on rapidly developing areas of reinforcement learning, AI, and their applications, highly promoted the recognition of IEEE SMC, RA, and Computer Society Chapters as well as the North Jersey Section, and strongly advanced the membership drive and development for IEEE.





**Stern-Gerlach**  
Image credit by Ibrahim Saleih

**Photon measurement**  
Image credit by Christian Negere

Intensity

Screen

Incoming ray with arbitrary polarization

p-polarized component

s-polarized component

Participants (35)

Find a participant

Joined (35)

- W Haitian Wang (Host, me)
- Danyi Dong (Guest)
- Jorge Lu (Guest)
- AaronMuang (Guest)
- Amr R. (Guest)
- Amr Ghosh (Guest)
- Belwen Chen (Guest)
- Bochen Zhang (Guest)
- Calvin (Guest)
- Chenyang Zhang (Guest)
- Daniel (Guest)
- David Smart (Guest)
- Dan Xu - MJST (Guest)
- Dongming Wang (Guest)
- Guo ranran (Guest)
- Hao Dou (Guest)
- HUAWEI HONOR AL 10 (Guest)
- Jerry (Guest)
- Jesse (Guest)

Zoom Workplace Meeting

35 Participants

Audio Video

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End