机 器 人 与 自 主 系 统 论 坛
Robotics and Autonomous Systems Seminar

Connections between Reinforcement Learning and Control, and Hybrid Methods for Human-Robot Interactions

报告摘要 Autonomous mobile robots are becoming pervasive in everyday life, and hybrid approaches that merge traditional control theory and modern data-driven learning-based methods are becoming increasingly important. In this talk, we will first discuss some connections between control and reinforcement learning, and how control can enable more data-efficient, generalizable, and interpretable robot learning. Afterwards, we will discuss hybrid and learning-based methods for human-robot interactions.

个人简历 Dr. Mo Chen is an Assistant Professor in the School of Computing Science at Simon Fraser University, Burnaby, BC, Canada, where he directs the Multi-Agent Robotic Systems Lab. He holds a Canada CIFAR AI Chair position and is an Amii Fellow. Dr. Chen completed his PhD in the Electrical Engineering and Computer Sciences Department at the University of California, Berkeley in 2017, and received his BASc in Engineering Physics from the University of British Columbia in 2011. From 2017 to 2018, He was a postdoctoral researcher in the Aeronautics and Astronautics Department in Stanford University. Mo's research interests include multi-agent systems, safety-critical systems, human-robot interactions, control theory, and reinforcement learning.

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