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OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY
沖縄科学技術大学院大学

THEORETICAL SCIENCES VISITING PROGRAM

TSVP TALK

Social Dynamics of Human-AI Hybrids

2024

MON.

Jun. 24

13:30–14:30

HYBRID **L4E48, ZOOM**



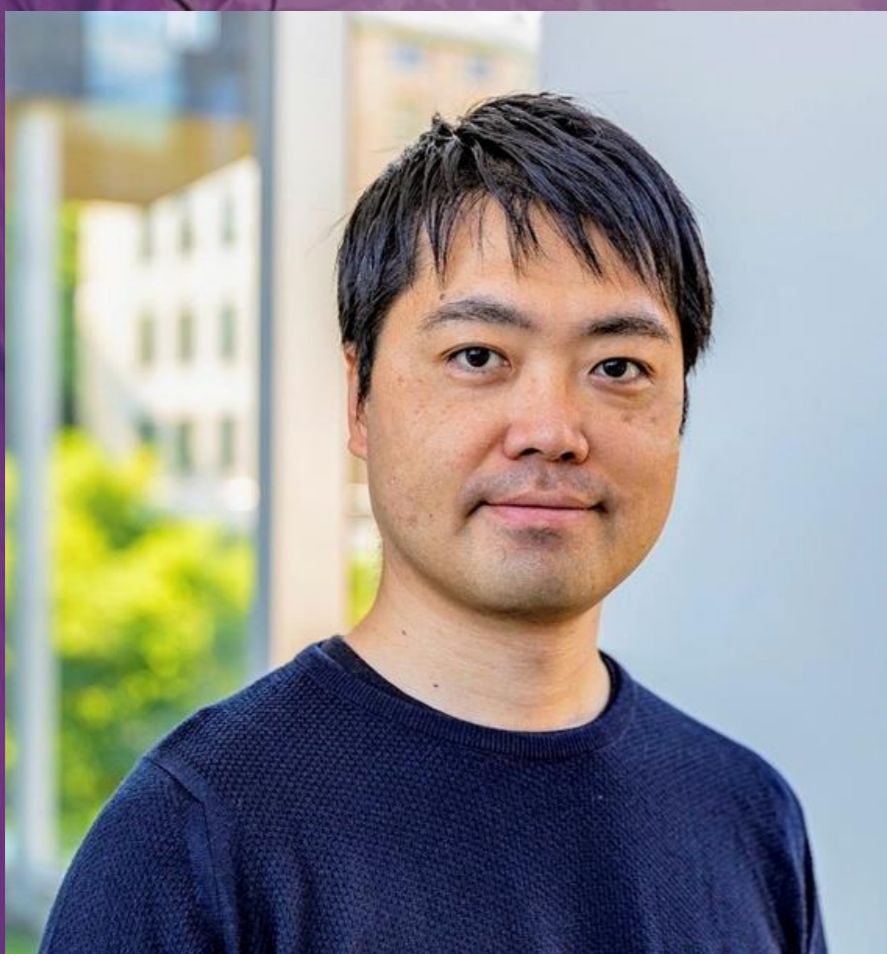
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Artificial intelligence is increasingly prevailing in the collective action of human groups, potentially impacting the prosocial norms they have established. In this talk, I present our recent work investigating such a phenomenon through a cyber-physical experiment involving 300 online participants controlling robotic vehicles in a coordination game. Our results indicate that autonomous assistance can hinder the emergence of reciprocity among people, favoring self-interest maximization. Our findings suggest that AI support can fundamentally alter social coordination dynamics, affecting the balance between individual and collective benefits. Finally, I discuss a novel theoretical framework for studying the social dynamics of human-AI hybrids.

Carnegie Mellon University

Hirokazu Shirado

Hirokazu Shirado is an Assistant Professor of the Human-Computer Interaction Institute in the School of Computer Science at Carnegie Mellon University in Pittsburgh, USA. His research focuses on the role of social interactions and technology in the emergence of social order and in the collective confrontation of social dilemmas. He is particularly interested in studying hybrid systems of humans and machines, particularly how artificial intelligence can help people address the challenges of collective action. He has received the NSF CAREER Award and the ASA Outstanding Paper Award for his work.



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