

Digital Manufacturing and Human-centered Automation Workshop



17 Jan 2024 (Wed)

9:00 - 17:00 (HKT, UTC+8)

Online via Zoom

REGISTER
NOW



FREE FOR EVERYONE

Invited Speaker



Prof. Xun XU
Professor,
The University of Auckland
Industry 4.0 and Industry 5.0 – Automate or not Automate?



Dr Fangni ZHANG
Assistant Professor,
The University of Hong Kong
Urban Co-modality: Synergize Passenger and Freight Transportation



Dr Yuqian LU
Senior Lecturer,
The University of Auckland
Human-machine Teaming: Thoughts and Exploration



Dr Ray ZHONG
Assistant Professor,
The University of Hong Kong
Data-driven Smart Prefabrication Construction in Hong Kong



Dr Pai ZHENG
Assistant Professor,
The Hong Kong Polytechnic University
AR-assisted Digital Twin for Human-centric Smart Manufacturing: An Exploration



Dr Gangyan XU
Assistant Professor,
The Hong Kong Polytechnic University
Human-Centric Design for Smart Logistics Systems



Dr Hailong HUANG
Assistant Professor,
The Hong Kong Polytechnic University
Human-Machine Cooperative Trajectory Planning and Tracking for Safe Automated Driving



Dr Ming LI
Research Assistant Professor,
The Hong Kong Polytechnic University
Towards Cyber-Physical Internet: A Systematic Review, Fundamental Model and Future Perspectives



Dr Tao PENG
Associate Professor,
Zhejiang University
From Digital Human Modeling to Human Digital Twin



Dr Zhiheng ZHAO
Research Assistant Professor,
The Hong Kong Polytechnic University
Spatial-temporal Traceability for Cyber-physical Industry 4.0 Systems



Prof. Shuaian (Hans) WANG
Professor,
The Hong Kong Polytechnic University
Prescriptive Analytics for Systems Engineering: State-of-the-art Development



Dr Zhe PENG
Research Assistant Professor,
The Hong Kong Polytechnic University
Data-driven Cyber-physical Systems: Methods, Applications and Beyond

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TIME	RUNDOWN
Session Chair: Prof. George Q. HUANG	
9:00-9:10	Prof. Hau-chung MAN Opening Speech & Group Photo
9:10-9:55	Prof. Xun XU Industry 4.0 and Industry 5.0 – Automate or not Automate?
9:55-10:40	Dr Yuqian LU Human-machine Teaming: Thoughts and Exploration
10:40-11:00	<i>Tea break</i>
Session Chair: Dr Gangyan XU	
11:00-11:20	Dr Pai ZHENG AR-assisted Digital Twin for Human-centric Smart Manufacturing: An Exploration
11:20-11:40	Dr Tao PENG From Digital Human Modeling to Human Digital Twin
11:40-12:00	Dr Hailong HUANG Human-Machine Cooperative Trajectory Planning and Tracking for Safe Automated Driving
12:00-14:00	<i>Lunch break</i>
Session Chair: Dr Ming LI	
14:00-14:20	Prof. Hans WANG Prescriptive Analytics for Systems Engineering: State-of-the-art Development
14:20-14:40	Dr Fangni ZHANG Urban Co-modality: Synergize Passenger and Freight Transportation
14:40-15:00	Dr Ray ZHONG Data-driven Smart Prefabrication Construction in Hong Kong
15:00-15:20	Dr Zhiheng ZHAO Spatial-temporal Traceability for Cyber-physical Industry 4.0 Systems
15:20-15:40	<i>Tea break</i>
Session Chair: Dr Zhiheng ZHAO	
15:40-16:00	Dr Ming LI Towards Cyber-Physical Internet: A Systematic Review, Fundamental Model and Future Perspectives
16:00-16:20	Dr Gangyan XU Human-Centric Design for Smart Logistics Systems
16:20-16:40	Dr Zhe PENG Data-driven Cyber-physical Systems: Methods, Applications and Beyond
16:40-17:00	Prof. George Q. HUANG Closing Speech