



THE UNIVERSITY *of* EDINBURGH

School of Engineering

IMP Webinar Series – Joint Event With Partners

23rd - 24th June 2022

Zoom Meeting

Partner: Zhejiang University (ZJU), China

ZJU-UoE Symposium on Robotics and Digital Manufacturing

Agenda (1/3)

DAY 1: Thursday 23rd June 2022

Join Zoom Meeting <https://ed-ac-uk.zoom.us/j/84680711287>

Meeting ID: 846 8071 1287

Passcode: ZJU-UoE2022

9:00-9:10 Prof. Conchúr Ó Brádaigh (Head of School of Engineering, UoE) & Prof Min Li (Director of Office of Global Engagement, ZJU)
Introduction (**Opening Remarks**)

9:10-9:30 Dr. Jian Liu (Vice Dean of Office of Scientific Research and Technology Transfer, International Campus of ZJU; PI at ZJU-UoE)
Introduction of the Collaborations between ZJU and UoE at the International Campus of ZJU

Session one: Robotics and Control
(Chair: Dr. Chen Qin, UoE; Co-Chair: Dr. Shengze Cai, ZJU)

9:30-9:50 Dr. Qiuguo Zhu (Associate Professor at ZJU)
Towards Real-World Development and Control of Legged Robots

9:50-10:10 Dr. Chen Qin (Lecturer at UoE)
Machine learning in Medical Imaging: from Signals to Interpretation

10:10-10:30 Dr. Fei Gao (Assistant Professor at ZJU)
Micro Aerial Swarm Flying Out of Laboratory

10:30-10:40 Coffee Break

10:40-11:00 Dr. Yunjie Yang (Chancellor's Fellow at UoE)
Perceptive Sensing for Soft Robotics





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(Continued)

11:00-11:20 Dr. Shengze Cai (BaiRen Assistant Professor at ZJU)
Physics-informed Deep Learning for Tomographic Particle Tracking
Velocimetry

11:20-11.40 Dr. Francesco Giorgio-Serchi (Chancellor's Fellow at UoE)
Mechatronics and Control of Underwater Soft Robots for the
Offshore Industry

11:40-12:00 Prof. Tom Bruce (Dean International Students, College of
Science and Engineering, UoE)
Internationalization of UoE

12:00-12:20 Prof. Chao Xu (Associate Dean of College of Control
Science & Engineering; Dean of Huzhou Institute of ZJU)
A Quick Overview on Industrial Automation and Robotics Research &
Practice

DAY 2: Friday 24th June 2022

Join Zoom Meeting <https://ed-ac-uk.zoom.us/j/86840740103>

Meeting ID: 868 4074 0103

Passcode: ZJUUoE2022

Session two: Digital and Precision Manufacturing (Chair: Dr. Nan Yu, UoE; Co-Chair: Dr. Fangda Xu, ZJU)

09.00-09.30 Prof. Jonathan Corney (Chair in Digital Manufacture,
Director of MSc in Digital Design and Manufacture, UoE)

1. Introduction of MSc Programme in Digital Design and Manufacture
2. Data Mining for Engineering Design and Manufacture



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(Continued)

09:30-09:50 Dr. Fangda Xu (PI, Huzhou Institute of ZJU)
AMtwin - Next Generation Data-driven Additive Manufacturing
Simulation Method

09:50-10:10 Dr. Samuel Tammam-Williams (Lecturer at UoE)
3D Imaging of Metal Additive Manufacture

10:10-10:30 Dr. Yuanliu Chen (Research Professor at ZJU)
Ultra-precision Measurement Technologies for Cross-scale
Manufacturing

10:30-10:40 Coffee Break

10:40-11:00 Dr. Nan Yu (Lecturer at UoE)
Digitally Supported Plasma Processing for Ultra-precision Optics

11:00-11.20 Dr. Hai Gong (PI, Huzhou institute of ZJU)
Optical Path Difference Measurement With a Shack-Hartmann
Wavefront

11:20-11.40 Dr. Sina Haeri (Senior Lecturer at UoE)
Particle-Scale Modelling of Powder-Based Additive Manufacturing
Processes

11:40-11:50 Prof. Chao Xu (Associate Dean of College of Control
Science & Engineering & Dean of Huzhou Institute of ZJU) & Prof.
Xianfeng Fan (Head of UoE Institute of Materials and Processes)
Closing Remarks

