

Workshop 3 : Urban Carbon Neutrality

Organiser: Prof. Jerry YAN

Day 1 – Thursday, 6 July 2023

14:00 – 14:30	<u>Invited Keynote Talk</u> : Big Data and Climate Change: How Cities Can Become More Resilient and Efficient <i>Prof. Markus KRAFT</i> <i>Cambridge Centre for Advanced Research and Education</i>
14:30 – 15:00	<u>Invited Keynote Talk</u> : Autonomous Driving and the Challenges to Future City <i>Prof. Jianping WU</i> <i>Tsinghua University</i>
15:00 – 15:30	Coffee break
15:30 – 16:00	Harnessing the Power of Data Via Smart Systems Engineering Towards an Intelligent Carbon-Neutral Future <i>Dr Xiaonan WANG</i> <i>Tsinghua University</i>
16:00 – 16:30	Solar Reflectance Index (SRI) Based Functional Nanomaterial Solutions to Energy Smart Building Envelope <i>Prof. Lin LU</i> <i>The Hong Kong Polytechnic University</i>
16:30 – 17:00	Scientific Machine Learning in Smart Energy <i>Dr Yuntian CHEN</i> <i>Eastern Institute for Advanced Study</i>

Day 2 – Friday, 7 July 2023

09:00 – 09:30	<u>Invited Keynote Talk</u> : Incorporating Data Analytics into Urban Systems Design for Carbon Neutrality <i>Prof. Perry Pei-Ju YANG</i> <i>Georgia Institute of Technology</i>
09:30 – 10:00	<u>Invited Keynote Talk</u> : Deep Learning for Carbon Neutrality: AI Applications across Scales <i>Prof. Fengqi YOU</i> <i>Cornell University</i>
10:00 – 10:30	Coffee break
10:30 – 11:00	<u>Invited Keynote Talk</u> : Key Technologies and Applications for Smart Integrated Energy Systems <i>Prof. Yingru ZHAO</i> <i>Xiamen University</i>
11:00 – 11:30	Modular Metacognitive Digital Twin Technologies for Greener Cities & Cleaner Mobility <i>Dr Haoran ZHANG</i> <i>Peking University</i>
11:30 – 12:00	Secure Operation of a Low-Carbon Sustainable Urban Grid <i>Dr Siqi BU</i> <i>The Hong Kong Polytechnic University</i>