Suggested XJTU supervisors for summer school 2025

Prof Kai CHEN, School of Materials Science and Engineering

- Materials Science and Engineering; Metallurgy; Mechanical Engineering

Prof Zhifen ZHANG School of Engineering

- In-Situ Monitoring of Additive Manufacturing (DED, SLM, WAAM)
- Data Driven Metal Additive Manufacturing Processing Optimization
- Metal Additive Manufacturing Equipment and Applications.

Prof Junyi CAO, School of Mechanical Engineering

- Mechanical Engineering; Biomedical Engineering; Computer Engineering

Prof Xin CHEN, School of Electrical Engineering

- Renewable energy and Energy Storage
- AI in Power System

Prof Yu CHEN, School of Chemical Engineering

- Development and application of ultraviolet photoelectron spectroscopy system
- Development and application of Inverse photoemission spectroscopy system.

Prof Chengxin LI, School of Materials Science and Engineering

- Fundamentals of SOFC/SOEC and Advanced Modeling

Prof Xiangdong DING, School of Materials Science and Engineering

- Applications of machine learning in materials science

Prof Jinhua DU, School of Electrical Engineering

- Motor control in electric vehicle drive systems with a structured training program

Prof Feng LIU, School of Chemistry

- Elucidation of soft condensed system

Prof Jun LIU, School of Electrical Engineering

- LDM: A Generic Large Distribution Network Operation AI Model

Prof Zhiyuan LIU, School of Electrical Engineering

- Simulation Experimental Plan for Targeted Focusing of Magnetic Drugs

Prof Yu LUO

- Micro-nano
- Manufacturing/Additive Manufacturing Research Centre
- Electrohydrodynamic micro-nano 3D printing

Prof Le SHI, School of Electrical Engineering

- Flow field design for proton exchange membrane fuel cell (PEMFC)

Prof Meng SHI

- Heat transfer and fluids on micro/nano structures

Prof Han YAN, School of Materials Science and Engineering

- Stretchable Organic Solar Cells

Prof Chao ZHANG, School of Information and Communication Engineering

- Reconfigurable Intelligent Surface (RIS) Enabled Superior Communications

Prof Hongyu SHI

- Metasurfaces, RIS, phased array antennas

Prof Jiancun FAN, School of Information and Communication Engineering

- Wireless multipath-based simultaneous localization and mapping
- Integration of communication and sensing
- Semantic communications

Prof Qinghe DU

- New physical-layer technologies for wireless communications

Prof Chaobo YAN

- Modeling, Analysis, and Optimization of Manufacturing and Logistics Systems
- Motion Planning and Collaborative Control of Multi-Robot Systems

Prof Stephen BUSH, School of Electronic Science and Engineering

- Computational biology, bioinformatics, and "big data" genomics

Prof Fei WANG, School of Software

- Human sensing with IoT devices and LLMs.