

## **Advanced Manufacturing**

Additive Manufacturing  
Surface Engineering/Coatings  
Modeling, Analysis and Simulation of Manufacturing Processes  
Materials Forming and Machining  
Welding & Joining  
Microwave Processing of Materials  
Thermal Engineering Theory and Applications  
CAM/CAE  
High-speed/Precision Machining and Inspection Technology  
Micro-Machining Technology  
Laser Processing Technology  
Bionic Mechanisms and Bio-manufacturing  
Virtual Manufacturing and Network Manufacturing  
Remanufacturing Engineering  
Sustainable Manufacturing Technologies  
Digital Manufacture and Management  
Quality Monitoring and Control of the Manufacturing Process  
System Analysis and Industrial Engineering  
Production and Operation Management  
Green Supply Chain  
Manufacturing E-commerce System  
The Internet of Things  
Data Science Enhanced Manufacturing  
Cyber-Physical Systems in Manufacturing

## **Design Engineering**

CAD  
Design Processes  
Design Theory and Research Methodology  
Design Organization and Management  
Product, Service and Systems Design  
Design Information and Knowledge  
Human Behavior in Design  
Design Education  
Design Methods and Tools  
Machinery and Machine Design  
Manufacturing and Production Process Design  
Design for Manufacturing  
Management of Innovation and Technology  
New Product Development  
Managing collaborative innovation  
Digital Design