2023 THE 6TH INTERNATIONAL CONFERENCE ON INNOVATIVE DESIGN AND MANUFACTURING, ICIDM 2023
2023年第六届ICIDM国际创新设计与制造学术会议

August 11-13, 2023（Friday Sunday）

English

| home | About us | Event Overview | Soliciting papers | Comprehensive News | Conference Registration | Excellent Paper | Notice Announcement |

Event Overview　　　　　Meeting Outline　　　Meeting schedule　　　keynote speaker

Meeting schedule

position： home > Meeting schedule

Conference Program

Registration time: Check-in starts at 13:00 on August 11th (Friday).
Dinner Time: 18:00-19:30　Venue: Vienna International Hotel
Registration Venue: Vienna International Hotel (Wuhan Jiedaokou Store), Conference Hall, No. 122 Luoshi Road, Hongshan District, Wuhan City, Hubei Province, China.
Notice: Full-day conference presentations on August 12th (Saturday);Group forum on August 13th (Sunday).
Conference Venue: Conference Center (Room 201),　Wuhan University of Technology

August 12th, morning, Conference Center (Room 201), Wuhan University of Technology

Time	Events	Host
08:30-08:35	Introduction	Professor Wu fei (Wuhan University of Technology)
08:35-08:50	Opening Session： Wu Chaozhong, Vice President of Wuhan University of Technology Leonid Ivanov, Vice President of the Russian Academy of Engineering Wang Xinyun, Vice Chairman of the Hubei Provincial Association for Science and Technology Zhao Daxing，President of Hubei mechanical and electrical engineering society	
08:50-09:10	Conference Photo	
09:10-09:40	Hybrid mold inserts using metal epoxy composites in rapid tooling application for injection molding Professor Dr. Safian Sharif AUniversiti Teknologi Malaysia	Professor Hua Lin (Wuhan University of Technology)
09:40-10:20	Digitalization, Intelligent Manufacturing Technology, and Equipment Innovation Development (online) Professor Shan Zhongde Nanjing University of Aeronautics and Astronautics	
10:20-10:50	Coffee Break	
10:50-11:20	Progress and Trends in Large-Scale Complex Component Robot Machining Technology Professor Peng Fangyu Huazhong University of Science and Technology	
11:20-11:50	Current Situation and Development Trends of High-end CNC Machine Tools Professor Liu Zhifeng Jilin University	
12:00-14:00	Buffet Lunch	

August 12th, afternoon, Conference Center (Room 201), Wuhan University of Technology

Time	Events	Host
14:30-15:00	Deep learning for nonlinear system identification Professor Wen Yu CINVESTAV-IPN (National Polytechnic Institute)	Professor Song Chunsheng (Wuhan University of Technology)
15:00-15:30	Interval Process Model for Dynamic Uncertainty Analysis Professor Jiang Chao Hunan University	
15:30-15:50	Coffee Break	
15:50-16:20	Analysis of Concepts and Technological Development Paths in the Fields of Artificial Intelligence, Intelligent Manufacturing, and Robotics Dr. Gao Peng Berlin Technical University	Professor Wu Huachun (Wuhan University of Technology)
16:20-16:50	Autonomous Remanufacturing – Dawn has broken(online) Professor Duc Truong Pham University of Birmingham	
17:00	Buffet Dinner	

August 13th, morning, Conference Center
Wuhan University of Technology

Time	Events	Host
08:30-11:50	Parallel Session I: Room 103	Associate Professor Du Baigang (Wuhan University of Technology)
	Parallel Session II: Room 104	Associate Professor Yang Shuang (Wuhan University of Technology)
	Parallel Session III: Meeting Room, School of Mechanical and Electronic Engineering	Associate Professor Wang Lei (Wuhan University of Technology)
11:50-14:00	Buffet Lunch	

August 13th, afternoon, Conference Center
Wuhan University of Technology

Time	Events	Host
14:00-15:40	Parallel Session IV: Meeting Room, School of Mechanical and Electronic Engineering	Professor Li Yibing (Wuhan University of Technology)
15:40-17:00	Open communication	/

Parallel Session I

August 13th
On-site conference: Room 103, Conference Center, Wuhan University of Technology

08:30-08:50	Influence of grain size on wear properties of high entropy alloys 王颖，朱文利，胡志刚，杨军胜 武汉轻工大学
08:50-09:10	基于钙钛矿微腔的飞秒激光制备及其应用 田晓语 武汉轻工大学
09:10-9:30	Research on design and modification method of high-load bearing face gear based on gear skiving technology Man Xu Hubei Key Laboratory of Advanced Technology for Automotive Components, Wuhan University of Technology
09:30-9:50	低安装空间的三自由度并联平台的设计与研究 王成刚，张喻阳，高泽宇，杨旺 武汉工程大学
09:50-10:10	Research on Target Recognition and Counting Algorithm of Quadruped Robot Based on Machine Vision 蔡俊丹，罗榆清，万芊，陈楷夫，程卓 中国地质大学（武汉）
10:10-10:30	An efficient robot learning approach for peg-in-hole assembly tasks: combining model-based data generation and reinforcement learning 纪圳睿 武汉理工大学
10:30-10:50	Motion Patterns Recognition for Lower Extremity Exoskeleton robots based on Continuous Hidden Markov Models 郑建彬，黄立平，王昱 武汉理工大学
10:50-11:10	Finite element simulation and experimental validation of machining GH4169 using carbide tools 韦秀岩 武汉理工大学

Parallel Session II

August 13th
On-site conference: Room 104, Conference Center, Wuhan University of Technology

时间	内容
08:30-08:50	激光发射机智能装配制造技术研发及应用 谭佐军，刘成武，李俊霖，朱栋杰，陈建军 华中农业大学
08:50-09:10	Digital Twin Technology Applications in Automotive Design and Manufacturing Process 侯俊，王冬旭 湖北汽车工业学院
09:10-9:30	Enhancing mechanical property and microstructure refinement of TiBw/TA15 composite by rotary forging 张继时，胡轩 Hubei Key Laboratory of Advanced Technology for Automotive Components, Wuhan University of Technology
09:30-9:50	Effect of nano-ZrO2 on the performance of water-soluble calcia-based ceramic core via direct ink writing method 穆英朋，刘富初，韩光超，郝亮 中国地质大学（武汉）
09:50-10:10	A Hybrid Archimedean Optimization Algorithm for Multi-Objective Hot & cold Casting Shop Scheduling Problem 魏书鹏，唐红涛，李西兴，李德明 武汉理工大学
10:10-10:30	A Parameter-optimized Adaptive Local Iterative Filtering Method Based on Particle Swarm Optimization for Rolling Bearing Fault Diagnosis 张毅，裴后昌，孙亮波 武汉轻工大学
10:30-10:50	基于Lamb波的铝板损伤检测信号研究 王高平，关可庆，李致远 武汉工程大学
10:50-11:10	Research on Fault Diagnosis of HVAC Systems Based on the ReliefF-RFECV-SVM Combined Model 聂 磊，吴柔慧，任一竹，谭梦颖 湖北工业大学
11:10-11:30	基于复杂网络的制造服务节点动态分布优化方法 王磊，崔彪彪 武汉理工大学

Parallel Session III

August 13th
On-site conference: Meeting Room, School of Mechanical and Electronic Engineering

08:30-08:50	Optimal Maintenance Strategy for Ball Screws Based on Life Prediction 周华西，裴后昌孙亮波，王晓艺 武汉轻工大学
08:50-09:10	A bouncing aircraft 梁菁,金卓阳,孙雁兵,岳辉 太原理工大学
09:10-9:30	Design of camera pan-tilt system for underwater detection robot based on dual-axis motion 高泽宇，盖超会，王成刚，汪潇 武汉工程大学
09:30-9:50	Characterization of ultrasonically assisted orthogonal cutting of bone using digital image correlation analysis 翟宇皓，柏伟，韩光超 中国地质大学（武汉）
09:50-10:10	Improved Hybrid Estimation of Distribution Algorithm for Distributed Parallel Assembly Permutation Flow Shop Scheduling Problem 杜利珍，王鑫涛，唐家琦，唐红涛，庄萌臻 武汉纺织大学
10:10-10:30	Data prediction and fault diagnosis of sensor system in HVAC 聂磊，任一竹，吴柔慧，谭梦颖 湖北工业大学
10:30-10:50	A deep reinforcement learning approach based on CTDE paradigm for solving Job-shop Scheduling Problem 杜百岗，郭钧，张厚胜 武汉理工大学
10:50-11:10	A multi-dimensional force sensing method for bone drilling and milling surgical robot based on fiber optic sensing 赵琛，李天梁，张健 武汉理工大学
11:10-11:30	A hybrid particle swarm optimization for flexible casting job shop scheduling problem with batch processing machine 张伟，唐红涛，王磊，郭顺生 武汉理工大学
11:30-11:50	基于无监督堆叠去噪自编码器多工况下滚动轴承自动故障诊断 王磊，饶航，董政呈，曾文会，许凡，江丽 武汉理工大学

Parallel Session IV

August 13th
On-site conference: Meeting Room, School of Mechanical and Electronic Engineering
Online conference: Tencent meeting ID: 730-514-439

14:00-14:20	Data-driven condition-based maintenance using anomaly detection under concept drift: A case study of an ultrasonic sieve machine 朱峰 德国达姆施塔特工业大学
14:20-14:40	自由车削中的刀具磨损机理研究 翁剑 多特蒙德工业大学
14:40-15:00	Wear behavior of NiTi alloys fabricated by laser power bed fusion 黄祥辉 法国国立高等工艺学校 Ecole nationale supérieure d'Arts et
15:00-15:20	In-process tool incidence identification based on temporal pyramid pooling and convolutional neural network 张纪铎 英国曼彻斯特大学
15:20-15:40	An improved Lagrange-based numerical model for machining Ti-6Al-4V alloy concerning tool cutting edge microgeometry 胡诚 法国国立高等工艺学校 Ecole nationale supérieure d'Arts et
15:40-16:00	面向大尺寸航空蒙皮的机器人视觉测量与加工规划 王 刚 重庆大学