

ICMME 2025

4th International Conference on Mechatronics and Mechanical Engineering

第四届机电一体化与机械工程国际会议

会议日程

Conference Program



**UNIVERSITÉ
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NMSRC
Nanotechnology &
Multifunctional Structures
Research Center



AMA



中国大连 | Dalian, China

2025年8月22-24日 | August 22-24, 2025

目 录

大会简介	1
Introduction	2
组织机构	3
Organization	7
会议日程	11
Program	15
会议地点 Venue	21
摘要 Abstract Index	22

大会简介

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

第四届机电一体化与机械工程国际会议 (ICMME 2025) 将于 2025 年 8 月 22 日-24 日在中国大连召开。本届会议由国际应用科学与技术协会 (IAAST) 主办，微研学术承办，并得到大连交通大学、法国上阿尔萨斯大学等单位大力支持，并获得 IEEE 国际机器人与自动化协会技术支持。

此次会议以“机电一体化与机械工程”为主题，为来自国内外高等院校、科学研究所、以及各企事业单位的专家、学者、工程技术人员提供一个面对面交流经验与展示最新研究成果的平台。大会诚邀国内外高校、科研机构专家、学者及其他相关人员参会交流，探讨前沿技术，引领行业发展趋势，促进学术成果产业化合作。

大连依山傍海，景色秀丽，是中国著名的海滨旅游城市和避暑、疗养、休假胜地。面向烟波浩淼的太平洋，临海处海湾较多，礁石错落，地貌奇特，构成了以蓝天、碧海、白沙、黑礁为特色的幽雅明丽的海滨风光。

ICMME2025 诚邀广大学者齐聚大连，参会交流！

Introduction

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

The 4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025) will be held in Dalian, China during August 22-24, 2025.

The conference will be organized by International Association of Applied Science and Technology (IAAST), in association with WeResearch, supported by Dalian Jiaotong University, Haute Alsace University, the Association of Marine Affairs, Nanotechnology and Multifunctional Structures Research Center (NMSRC) and technical co-sponsored by IEEE RAS.

The conference aims to be an important forum for researchers and scholars from multiple disciplines to come together to share knowledge, discuss ideas, exchange information, and learn about cutting-edge research in diverse fields with the common theme of mechatronics and mechanical engineering.

Dalian is a famous seaside tourist city in China and a resort for summer, recuperation and vacation. It faces the vast Pacific Ocean, there are many bays near the sea, scattered reefs, and strange landforms, forming a quiet and beautiful seaside scenery characterized by blue sky, blue sea, white sand and black reefs.

ICMME 2025 looks forward to meeting all the attendees in Dalian!

组织机构

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

主办单位:

国际应用科学与技术协会 (IAAST)

承办单位:

微研学术

支持单位:

大连交通大学

法国上阿尔萨斯大学

中国海洋发展研究会

纳米技术和多功能结构研究中心 (NMSRC)

技术支持单位:

IEEE 国际机器人与自动化协会

大会主席:

Chun-Yi Su 教授，加拿大康考迪亚大学

联席主席:

王顺利教授，内蒙古工业大学

Youmin Zhang 教授，加拿大康考迪亚大学

技术委员会主席:

Gheorghe-Daniel Andreeșcu 教授，罗马尼亚蒂米什瓦拉理工大学

Gordana Jovanovic Dolecek 教授，墨西哥国家天文物理、光学与电子学研究所

出版主席:

蒋宇辰教授，哈尔滨工业大学

组织机构

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

委员会成员：

Aamer Nazir, King Fahad University of Petroleum and Minerals, Saudi Arabia

Aarti Amod Agarkar, Vishwakarma Institute of Technology, India

Adriana Borodzhieva, University of Ruse "Angel Kanchev", Bulgaria

Anand Nayyar, Duy Tan University, Vietnam

Ana Martins Amaro, University of Coimbra, Portugal

Astuty Binti Amrin, Universiti Teknologi Malaysia, Malaysia

Balasubramaniyan Chandrasekaran, University of the Pacific, USA

Bhaveshkumar N. Pasi, Sardar Patel College of Engineering, India

Chong Zhi Lin, Universiti Tunku Abdul Rahman, Malaysia

Chunhua Liu, City University of Hong Kong, Hong Kong, China

Debao Zhou, University of Minnesota Duluth, USA

Deepika Koundal, University of Petroleum and Energy Studies, India

Dimitrios Rakopoulos, Centre for Research & Technology Hellas (CERTH), Greece

Galina Ilieva, Plovdiv University Paisii Hilendarski, Bulgaria

George K. Adam, University of Thessaly, Greece

Gheorghe Grigoras, "Gheorghe Asachi" Technical University of Iasi, Romania

Hocine Imine, Gustave Eiffel University, France

Hongliang Ren, The Chinese University of Hong Kong, Hong Kong, China

Hüseyin Canbolat, Ankara Yildirim Beyazit University, Türkiye

组织机构

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4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

Jiahua Zhao, Heilongjiang International University, China

Jinfeng Wang, Zhengzhou University, China

Jo-Han Ng, University of Southampton Malaysia, Malaysia

Joshuva Arockia Dhanraj, Dayananda Sagar University, India

Kamran Iqbal, University of Arkansas at Little Rock, USA

Kazem Abhary, University of South Australia, Australia

K. N. Bharath, GM Institute of Technology, India

Leila Ghomri, Université Abdelhamid Ibn Badis Mostaganem, Algeria

Lokavarapu Bhaskara Rao, Vellore Institute of Technology, Chennai Campus, India

Lorna Uden, The University of Staffordshire, UK

Marcelo Flavio Guepfrih, Federal University of Technology–Paraná, Brazil

Mellah Hacene, Bouira University, Algeria

Michele Fiorini, Leonardo S.p.A., Italy

Mohamad Abou Houran, Xi'an Jiaotong University, China

Mohammad Hossein Mousavi, Razi University, Iran

Mojtaba Ahmadieh Khanesar, University of Nottingham, UK

Pavlo Krot, Wroclaw University of Science and Technology, Poland

Raffaele Di Gregorio, University of Ferrara, Italy

Ryspek Usabamatov, Kyrgyz State Technical University, Kyrgyzstan

Sadettin Cem Altiparmak, Imperial College London, UK

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Sheikh Tanzim Meraj, Universiti Teknologi Petronas, Malaysia

Siti Rohani Sheikh Raihan, University of Malaya, Malaysia

Songgang Qiu, West Virginia University, USA

Songmei Yu, Felician University, USA

Umesh Chandra Pati, National Institute of Technology, India

Valentina Emilia Balas, Aurel Vlaicu University of Arad, Romania

Vesna Zeljkovic, Lincoln University, USA

Wei Xu, Huazhong University of Science and Technology, China

Wen-Jer Chang, National Taiwan Ocean University, Taiwan

Xiaoru Song, Xi'an Technological University, China

Organization

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

Organized by

International Association of Applied Science and Technology (IAAST)

In Association With

WeResearch

Supported by

Dalian Jiaotong University

University of Haute Alsace

The Association of Marine Affairs

Nanotechnology and Multifunctional Structures Research Center (NMSRC)

Technical Co-sponsor

IEEE Robotics and Automation Society (RAS)

General Chair

Chun-Yi Su, Concordia University, Canada

Co-Chairs

Shunli Wang, Inner Mongolia University of Technology, China

Youmin Zhang, Concordia University, Canada

Technical Committee Chair

Gheorghe-Daniel Andreescu, Politehnica University Timisoara, Romania

Gordana Jovanovic Dolecek, Institute INAOE, Mexico

Publication Chair

Yuchen Jiang, Harbin Institute of Technology, China

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会议日程

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4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

2025年8月22日
大连交通大学图书馆多功能厅（大连市沙河口区黄河路794号）
线上同步腾讯会议：<https://meeting.tencent.com/dm/trU67Ug1YQAR>
会议室ID: 914-553-028

08:00-09:00	会议入场
09:00-09:20	开幕式 & 领导致辞 主持人：大连交通大学电气工程学院院长李荣华教授
09:20-09:30	会议合照
09:30-10:10	主讲报告 1: 岳洋教授，西安交通大学 报告题目：通信信道光性能的多参数监测
10:10-10:50	主讲报告 2: 高志伟教授，英国诺森比亚大学 报告题目：波能转换系统的故障诊断与容错控制方法
10:50-11:10	茶歇 墙报展示
11:10-11:50	主讲报告 3: 汪敏教授，西南石油大学电气信息学院副院长 报告题目：开放场景下广义主动分层抽样——面向深地探索的开放场景泛化增强框架
11:50-13:30	午餐 午休
13:30-14:00	主题报告 1: 李东辉副教授，大连交通大学 报告题目：高速列车电磁兼容性的建模与仿真
14:00-14:30	主题报告 2: Philip W. T. Pong 教授，美国新泽西理工学院 报告题目：智能电网状态监测和异常检测中的非接触式磁传感：新的可能性和替代方案
14:30-14:45	口头汇报 1: Hyokyung Bahn, 韩国梨花女子大学 题目：灵活制造系统中实时任务的资源调度动态适应性研究
14:45-15:00	口头汇报 2: 武伟让，中广核检测技术有限公司 题目：核电站凝汽器防振条自动插入技术的开发与应用
15:00-15:15	口头汇报 3: Seohoon Jin, 韩国世宗大学 题目：高效语义分割：利用知识蒸馏实现模态缩减

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15:15-15:30	口头汇报 4: 孙晓天, 大连交通大学 题目: 基于神经网络的优化鲁棒卡尔曼滤波在高速列车故障估计中的应用——一种描述系统方法
15:30-15:45	口头汇报 5: Gahyeon Kwon, 韩国梨花女子大学 题目: 在动态电压频率调整、任务卸载和任务负载变化情况下实时物联网系统的能效分析
15:45-16:00	口头汇报 6: Jeongha Lee, 韩国梨花女子大学 题目: 为移动深度学习工作负载中的定期存储刷新编写缓存管理代码
16:00-16:15	口头汇报 7: 蔡奕帆, 大连交通大学 题目: 基于深度强化学习的飞机控制
16:15-16:30	口头汇报 8: 陈炳森, 广西水利电力职业技术学院 题目: 基于小型 PLC 的小型水力发电机组自动控制系统设计
16:30-16:45	口头汇报 9: 郑渝伟, 大连交通大学 题目: 基于强化学习的变体高超音速飞行器滑模控制
16:45-17:00	口头汇报 10: 霍志苗, 长安大学 题目: 基于离散元模拟的沥青路面纵向接缝压实机理分析
17:00-17:15	口头汇报 11: 邓一豪, 长安大学 题目: 基于端到端深度学习的聚合体粒度检测
17:15-17:30	口头汇报 12: 常纪辉, 大连交通大学 题目: 基于滚动轴承的剩余寿命预测
17:30-17:45	口头汇报 13: 张鹏, 浙江大学流体动力与机电系统国家重点实验室 题目: 超精密主轴多孔气浮轴承气动锤振动分析
17:45-18:00	口头汇报 14: 田家亮, 大连交通大学 题目: 基于三电平逆变器的功率因数自适应 DPWM 控制策略
18:00	优秀颁奖

会议日程

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4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

2025 年 8 月 23 日（线上）

腾讯会议: <https://meeting.tencent.com/dm/cgQwiNm35Wvp>

会议室 ID: 415-289-937

09:00-09:30	<p>主题报告 1: Madihah Mohd Saudi 教授, 马来西亚伊斯兰理工大学 报告题目: 用数字孪生揭开网络威胁检测的面纱: 我们准备好了吗?</p>
09:30-10:00	<p>主题报告 2: M. A. Jabbar 教授, 印度瓦尔达曼工程学院教授兼系主任 报告题目: 揭秘生成式人工智能在医学成像应用中的应用</p>
10:00-10:30	<p>主题报告 3: Kazem Abhary 教授, 澳大利亚南澳大学 报告题目: 平面机构运动学分析的最大 9 个一元方程纯解析参数法</p>
10:30-11:00	<p>主题报告 4: Chua Kian Jon Ernest 教授, 新加坡国立大学 报告题目: 机械冷却与除湿技术的创新: 提升效率与可持续性</p>
11:00-11:30	<p>主题报告 5: Bhaveshkumar N. Pasi 教授, 印度维什瓦尼坦 iMEET 大学 报告题目: 工业 4.0 技术对可持续发展的意义</p>
11:30-12:00	<p>主题报告 6: Pooja Singh 教授, 印度孟买大学附属 SIES 技术研究生院 报告题目: 量化安全关键系统的共因故障: 以核电厂为例</p>
12:00-12:30	<p>主题报告 7: Anand Nayyar 教授, 越南维新大学 报告题目: 量子前沿: 探索量子通信、计算和机器学习算法协同作用</p>
12:30-13:30	午休
13:30-14:00	<p>主题报告 8: Pascal Lorenz 教授, 法国上阿尔萨斯大学 报告题目: 下一代无线网络架构</p>
14:00-14:30	<p>主题报告 9: Umesh Chandra Pati 教授, 印度国家理工学院 报告题目: 基于深度学习技术的视频漫游检测系统(LDS)</p>
14:30-15:00	<p>主题报告 10: Mohamed-Slim Alouini 教授, 沙特阿拉伯阿卜杜拉国王科技大学 报告题目: 充分挖掘平流层的潜力</p>

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15:00-15:15	口头汇报 1: 李丹阳, 北京警察学院 题目: ACPO: 一种利用蛇形优化器和自反馈机制实现的自动化上下文提示优化技术
15:15-15:30	口头汇报 2: 蔡照鹏, 马来西亚百纳利管理与创业大学 题目: 关于农村信息基础设施技术指标的文献研究
15:30-15:45	口头汇报 3: Nabaa T. Salman, 伊拉克巴士拉大学 题目: 用于光伏系统中动态控制太阳辐射的自适应 PDLC 智能薄膜
15:45-16:00	口头汇报 4: 邵晴, 中车长春轨道客车股份有限公司 题目: 高速磁浮列车多区域跟踪仿真算法及应用软件研究
16:00-16:15	口头汇报 5: 南天, 国网甘肃省电力公司物资公司 题目: 基于 Holt-Winters 和 XGBoost 联合方法的电力材料预测
16:15-16:30	口头汇报 6: 代崇敬, 中国测试技术研究院 题目: 基于双极矢量测量的高压测量装置的开发
16:30-16:45	口头汇报 7: 秦磊, 中国机械总院集团青岛分院有限公司 题目: 掘进机截齿对煤岩截割效率影响规律研究
16:45-17:00	口头汇报 8: Balasubramaniyan Chandrasekaran, 美国太平洋大学 题目: 农业多机器人导航监控系统中机器人的任务分配
17:00	会议闭幕

Program

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4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

August 22, 2025-Dalian Jiaotong University

Address: 794 Huanghe Road, Shahekou District, Dalian, Liaoning, China

VooV Meeting: <https://meeting.tencent.com/dm/trU67Ug1YQAR>

Meeting ID: 914-553-028

08:00-09:00	On-Site Registration
09:00-09:20	Opening & Welcome Speech Host: Prof. Ronghua Li, Dean for School for Electrical Engineering, Dalian Jiaotong University, China
09:20-09:30	Group Photo
09:30-10:10	Keynote Speech 1: Prof. Yang Yue, Xi'an Jiaotong University, China Title: Multiparameter Monitoring of Optical Performance in Communication Channels
10:10-10:50	Keynote Speech 2: Prof. Zhiwei Gao, University of Northumbria, UK Title: Fault diagnosis and fault tolerant control approaches for wave energy conversion systems
10:50-11:10	Tea Break & Poster
11:10-11:50	Keynote Speech 3: Prof. Min Wang, SouthWest Petroleum University, China Title: Generalized Active Stratified Sampling for Open Scenarios - A Generalization Enhancement Framework for Deep Exploration in Open Environments
11:50-13:30	Lunch Break
13:30-14:00	Invited Speech 1: Assoc. Prof. Donghui Li, Dalian Jiaotong University, China Title: Modeling and simulation of EMC for high speed train
14:00-14:30	Invited Speech 2: Prof. Philip W. T. Pong, New Jersey Institute of Technology, USA Title: Contactless Magnetic Sensing in Condition Monitoring and Anomaly Detection for Smart Grid: New Possibilities and Alternatives
14:30-14:45	Oral Presentation 1: Hyokyung Bahn, Ewha W. University, Republic of Korea Title: Dynamic Adaptation of Resource Scheduling for Real-time Tasks in Flexible Manufacturing Systems

Program

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

14:45-15:00	Oral Presentation 2: Weirang Wu, CGNPC Inspection Technology Co.,Ltd, China Title: Development and Application of Automatic Inserting Technology for Anti-vibration Strips of Condensers in Nuclear Power Plants
15:00-15:15	Oral Presentation 3: Seohoon Jin, Korea University Sejong, South Korea Title: Efficient Semantic Segmentation: Leveraging Knowledge Distillation for Modality Reduction
15:15-15:30	Oral Presentation 4: Xiaotian Sun, Dalian Jiaotong University, China Title: Neural Network-based optimized robust Kalman filtering for fault estimation of high-speed trains-a descriptor system approach
15:30-15:45	Oral Presentation 5: Gahyeon Kwon, Ewha W. University, Republic of Korea Title: Energy Efficiency Analysis of Real-Time IoT Systems under DVFS, Offloading, and Task Load Variation
15:45-16:00	Oral Presentation 6: Jeongha Lee, Ewha W. University, Republic of Korea Title: Write Cache Management for Periodic Storage Flush in Mobile Deep Learning Workloads
16:00-16:15	Oral Presentation 7: Yifan Cai, Dalian Jiaotong University, China Title: Aircraft Control Based on Deep Reinforcement Learning
16:15-16:30	Oral Presentation 8: Bingsen Chen, Guangxi Vocational College of Water Resources and Electric Power, China Title: Design of Automatic Control System for Small Hydroelectric Generator Unit Based on Small PLC
16:30-16:45	Oral Presentation 9: Yuwei Zheng, Dalian Jiaotong University, China Title: Reinforcement-Learning-Based Sliding Mode Control for a Morphing Hypersonic Vehicle
16:45-17:00	Oral Presentation 10: Zhimiao Huo, Chang'an University, China Title: Analysis of the Compaction Mechanism of Longitudinal Joints in Asphalt Pavements Based on Discrete Element Simulations

Program

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

17:00-17:15	Oral Presentation 11: Yihao Deng, Chang'an University, China Title: End-to-End Deep Learning-Based Particle Size Detection for Aggregates
17:15-17:30	Oral Presentation 12: Jihui Chang, Dalian Jiaotong University, China Title: Prediction of remaining life based on rolling bearings
17:30-17:45	Oral Presentation 13: Peng Zhang, State Key Laboratory of Fluid Power and Mechatronic Systems, Zhejiang University, China Title: Vibration Analysis of Pneumatic Hammer with Ultra-Precision Spindle and Porous Air-Floating Bearing
17:45-18:00	Oral Presentation 14: Jialiang Tian, Dalian Jiaotong University, China Title: Power Factor Adaptive DPWM Control Strategy Based on Three-Level Inverter
18:00	Awards

Program

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

August 23, 2025 (Virtual) VooV Meeting Link: https://meeting.tencent.com/dm/cgQwiNm35Wvp VooV Meeting ID: 415-289-937	
09:00-09:30	Invited Speech 1: Prof. Madihah Mohd Saudi, Universiti Sains Islam Malaysia (USIM), Malaysia Title: Unmasking the Cyber Threats Detection Using Digital Twins: Are We Ready?
09:30-10:00	Invited Speech 2: Prof. M. A. Jabbar, Vardhaman College of Engineering, India Title: Demystifying applications of generative AI in medical imaging applications
10:00-10:30	Invited Speech 3: Prof. Kazem Abhary, University of South Australia, Australia Title: A Purely Analytical Parametric Method for Kinematic Analysis of Planar Mechanisms, by maximum nine one-unknown equations
10:30-11:00	Invited Speech 4: Chua Kian Jon Ernest, National University of Singapore, Singapore Title: Innovations in Mechanical Cooling and Dehumidification: Advancing Efficiency and Sustainability
11:00-11:30	Invited Speech 5: Prof. Bhaveshkumar N. Pasi, Vishwaniketan's iMEET (ViMEET), India Title: Significance of Industry 4.0 Technologies for Sustainable Development
11:30-12:00	Invited Speech 6: Prof. Pooja Singh, SIES Graduate School of Technology, Navi Mumbai, India Title: Quantifying Common Cause Failures in Safety Critical Systems: A Case Study of Nuclear Power Plants
12:00-12:30	Invited Speech 7: Prof. Anand Nayyar, Duy Tan University, Vietnam Title: Quantum Frontiers: Exploring the Synergy of Quantum Communication, Computing, and Machine Learning Algorithms
12:30-13:30	Break
13:30-14:00	Invited Speech 8: Prof. Pascal Lorenz, University of Haute Alsace, France Title: Architectures of Next Generation Wireless Networks

Program

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

14:00-14:30	<p style="text-align: center;">Invited Speech 9:</p> <p>Prof. Umesh Chandra Pati, National Institute of Technology, India Title: Video-based Loitering Detection System (LDS) using Deep Learning (DL) Techniques</p>
14:30-15:00	<p style="text-align: center;">Invited Speech 10:</p> <p>Prof. Mohamed-Slim Alouini, King Abdullah University of Science & Technology, Saudi Arabia Title: Tapping into the full potential of the Stratosphere</p>
15:00-15:15	<p style="text-align: center;">Oral Presentation 1: Danyang Li, Beijing Police College, China</p> <p>Title: ACPO: An Automated Contextual Prompt Optimization Using the Snake Optimizer and Self-Feedback Mechanism</p>
15:15-15:30	<p style="text-align: center;">Oral Presentation 2: Zhaopeng Cai, Binary University of Management & Entrepreneurship, Malaysia</p> <p>Title: Literature Study on Technical indicators of Rural Information infrastructure</p>
15:30-15:45	<p style="text-align: center;">Oral Presentation 3: Nabaa T. Salman, University of Basrah, Iraq</p> <p>Title: Adaptive PDLC Smart Film for Dynamic Solar Radiation Control in PV Systems</p>
15:45-16:00	<p style="text-align: center;">Oral Presentation 4: Qing Shao, CRRC Changchun Railway Vehicles Co., Ltd., Maglev Research Institute, China</p> <p>Title: Research On Multi-Zone Tracking Simulation Algorithm and Application Software for High-Speed Maglev Train</p>
16:00-16:15	<p style="text-align: center;">Oral Presentation 5: Tian Nan, State Grid Gansu Electric Power Company Material Company, China</p> <p>Title: Electric Power Material Forecasting based on the Combined Method of Holt-Winters and XGBoost</p>

Program

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

16:15-16:30	Oral Presentation 6: Chongjing Dai, National Institute of Measurement and Testing Technology, China Title: Development of high voltage measuring device based on bipolar vector measurement
16:30-16:45	Oral Presentation 7: Lei Qin, China Academy of Machinery Science & Technology Qingdao Branch Co., Ltd, China Title: Research on the influence law of cutting efficiency of coal rock by cutting teeth of roadheading machine
16:45-17:00	Oral Presentation 8: Balasubramaniyan Chandrasekaran, University of the Pacific, USA Title: Task Allocation for Robots in an Agricultural Multi-robot System for Navigation and Monitoring
17:00	Closing

会议地点 | Venue

第四届机电一体化与机械工程国际会议

4th International Conference on Mechatronics and Mechanical Engineering (ICMME 2025)

会议地点: 大连交通大学沙河口校区

地址: 大连市沙河口区黄河路 794 号

Venue: Shahekou Campus, Dalian Jiaotong University

Address: 794 Huanghe Road, Shahekou District, Dalian, Liaoning, China



(图: 大连交通大学北门)



(图: 大连交通大学平面图)