AEECA 2025

2025 International Conference on Advances in

Electrical Engineering and Computer Applications

会 议 日 程
Conference Program

中国大连 | Dalian, China

2025 年 8 月 22-24 日 | August 22-24, 2025

目　录

大会简介

2025 International Conference on Advances in Electrical Engineering and Computer Applications

2025 电气工程与计算机应用国际会议 (2025 International Conference on Advances in Electrical Engineering and Computer Applications, AEECA 2025) 将于 2025 年 8 月 22-24 日在大连召开。本届会议由大连交通大学主办，大连交通大学电气工程学院、大连交通大学机械工程学院、国际应用科学与技术协会（IAAST）、微研学术承办，北京工业大学、东北大学、郑州大学、法国上阿尔萨斯大学、印度瓦尔达曼工程学院、内蒙古工业大学协办，并获得 IEEE 计算机协会技术支持。

大会以 "电气工程与计算机应用" 为主题，旨在为来自学术界、工业界的专家学者、研究人员和从业者提供展示和讨论最新研究成果的平台，从而促进电气工程和计算机应用领域进一步发展。

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。

AEECA 2025 诚邀广大学者齐聚大连，参会交流！

Introduction

2025 International Conference on Advances in Electrical Engineering and Computer Applications (AEECA 2025) will be held in Dalian, China during August 22-24, 2025. The conference is hosted by Dalian Jiaotong University, organized by School of Electrical Engineering of Dalian Jiaotong University, School of Mechanical Engineering of Dalian Jiaotong University, International Association of Applied Science and Technology (IAAST), WeResearch, in association with Beijing University of Technology, Northeastern University, Zhengzhou University, University of Haute - Alsace - France, Vardhaman College of Engineering - India, Inner Mongolia University of Technology, and technically co-sponsored by IEEE Computer Society.

AEECA 2025 will provide an international platform for experts, researchers, professionals, innovators and practitioners in the field of electrical engineering and computer applications from industry and academia to present and discuss the latest research results.

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.

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

组织机构

主办单位：

大连交通大学

承办单位：

大连交通大学电气工程学院

大连交通大学机械工程学院

国际应用科学与技术协会（IAAST）

微研学术

协办单位：

北京工业大学

东北大学

郑州大学

法国上阿尔萨斯大学

印度瓦尔达曼工程学院

内蒙古工业大学

大会主席：

张煜东，英国莱斯特大学教授

王顺利，内蒙古工业大学电力学院教授、学术院长

联席主席：

何泾沙，北京工业大学教授

蔡雁岭，郑州大学教授

组织委员会主席：

李荣华，大连交通大学电气工程学院院长

李晓峰，大连交通大学机械工程学院院长

冯庆胜，大连交通大学电气工程学院副院长

马付建，大连交通大学机械工程学院副院长

组织机构

科学委员会主席：

Pascal Lorenz，法国上阿尔萨斯大学教授

岳洋，西安交通大学教授

高志伟，英国诺森比亚大学教授

科学委员会成员：

Abid Yahya, Faculty of Engineering & Technology BIUST, Botswana

Alankrita Aggarwal, Apex Institute of Technology, Chandigarh University, India

Ajay B. Gadicha, P. R. Pote Patil College of Engineering and Management, India

Amine Khald, Université Kasdi Merbah-Ouargla, Algeria

Anand Nayyar, Duy Tan University, Vietnam

Arun Balodi, Dayananda Sagar University, India

Arup Neogi, University of Electronic Science and Technology of China, China

Azlan Mohd Zain, Universiti Teknologi Malaysia, Malaysia

Bimal K. Bose, The University of Tennessee, USA

Biplob Ray, Central Queensland University, Australia

Boris Andrievsky, Baltic State Technical University, Russia

Cheng Siong Chin, Newcastle University in Singapore, Singapore

Chinmay Chakraborty, Birla Institute of Technology, India

Chunhua Liu, City Unviersity of Hong Kong, China

Danilo Avola, Sapienza University of Rome, Italy

Deepak Kumar Panda, Amrita Vishwa Vidyapeetham University, India

Enrique Ciro Quispe Oqueña, Universidad Autónoma de Occidente, Colombia

George K. Adam, University of Thessaly, Greece

Hamed Taherdoost, University Canada West, Canada

Hui Na Chua, Sunway University, Malaysia

Jacek M. Zurada, University of Louisville, USA

组织机构

Jamshed Iqbal, University of Hull, UK

Janusz Kacprzyk, Polish Academy of Sciences, Poland

Javier Gozalvez, Universidad Miguel Hernandez de Elche, Spain

Jawwad Nasar Chattha, University of Management and Technology, Pakistan

Jay Kumar Pandey, Shri Ramswaroop Memorial University, India

Jiliang Zhang, Northeastern University, China

Jing Fan, Heilongjiang International University, China

Joachim Holtz, University of Wuppertal, Germany

Jingyu Liu, Harbin Normal University, China

Joarder Kamruzzaman, Federation University, Australia

Kaya Kuru, University of Central Lancashire, UK

Kali Charan Rath, GIET University, India

K. Thamizhmaran, Govt. College of Engineering, Bodinayakkanur, India

Kuan Yew Wong, Universiti Teknologi Malaysia, Malaysia

K. Vasudevan, Indian Institute of Technology Kanpur, India

Larbi Boubchir, University of Paris 8, France

Leila Ghomri, University of Mostaganem, Algeria

Lin Wang, Dalian Jiaotong University, China

Ljiljana Trajkovic, Simon Fraser University, Canada

Luca Silvestri, Niccolò Cusano University, Italy

Luigi Fortuna, University of Catania, Italy

Madihah Mohd Saudi, Universiti Sains Islam Malaysia, Malaysia

Marco Cococcioni, University of Pisa, Italy

Marius Branzila, "Gheorghe Asachi" Technical University of Iaşi, Romania

Md Abdus Samad Kamal, Gunma University, Japan

Meng Joo Er, Dalian Maritime University, China

组织机构

M. A. Jabbar, Vardhaman College of Engineering, India

Martin Cech, University of West Bohemia, Czechia

Michael Tribelsky, Lomonosov Moscow State University, Russia

Mihaela Popescu, University of Craiova, Romania

Mohamed A. A. Mohamed, University of Warwick, UK

Mohammad Kamrul Hasan, Universiti Kebangsaan Malaysia, Malaysia

Mohan Lal Kolhe, University of Agder, Norway

Mohd. Faisal Khan, Aligarh Muslim University, India

Monica Dutta, Chitkara University, India

Muhammad Firoz Mridha, American International University-Bangladesh, Bangladesh

Muhammad Usman, University of Science and Technology Beijing, China

Neeraj Gupta, NIT Srinagar, India

Nilgun Baydogan, Istanbul Technical University, Turkey

Omer K. Jasim, University of Fallujah, Iraq

Omid Mahdi Ebadati E., Kharazmi University, Iran

Patrick Siarry, Université Paris-Est Créteil, France

Philip W. T. Pong, New Jersey Institute of Technology, USA

Pooja Singh, SIES Graduate School of Technology, Navi Mumbai, India

Preetish Kakkar, Adobe, USA

Raffaele Di Gregorio, University in Ferrara, Italy

Rahul Kar, Kalyani Mahavidyalaya, India

Rajdeep Chakraborty, Medi-Caps University, India

Samrat Ray, International Institute of Management Studies, India

Seyed Mohammad Ayyoubzadeh, Tehran University of Medical Sciences, Iran

S. Masoud Barakati, University of Sistan and Baluchestan, Iran

Shashikant Patil, Atlas SkillTech University, India

组织机构

2025 International Conference on Advances in Electrical Engineering and Computer Applications

Siddhartha Bhattacharyya, Christ University, India

Smain Femmam, UHA University, France

Sunday Adeola Ajagbe, Ladoke Akintola University of Technology, Nigeria

Tokeer Ahmad, Jamia Millia Islamia, India

Umesh C. Pati, National Institute of Technology, India

Valentina Emilia Balas, Aurel Vlaicu University of Arad, Romania

Venkataramaiah Gude, GP Technologies LLC, USA

Vinayak Ashok Bharadi, Finolex Academy of Management and Technology, India

Wanwan Li, The University of Tulsa, USA

Yang Han, University of Electronic Science and Technology of China (UESTC), China

Yilun Shang, Northumbria University, UK

Yutian Liu, Shandong University, China

Organization

2025 International Conference on Advances in Electrical Engineering and Computer Applications

Hosted by

Dalian Jiaotong University

Organized by

School of Electrical Engineering, Dalian Jiaotong University

School of Mechanical Engineering, Dalian Jiaotong University

International Association of Applied Science and Technology (IAAST)

WeResearch

In Association with

Beijing University of Technology

Northeastern University

Zhengzhou University

University of Haute - Alsace - France

Vardhaman College of Engineering - India

Inner Mongolia University of Technology

General Chairs:

Yu-Dong Zhang, Professor of University of Leicester, UK

Shunli Wang, Professor of Inner Mongolia University of Technology, China

Co-Chairs

Jingsha He, Professor of Beijing University of Technology, China

Yanling Cai, Professor of Zhengzhou University, China

Organizing Committee Chairs

Ronghua Li, Dean of the School of Electrical Engineering, Dalian Jiaotong University, China

Xiaofeng Li, Dean of the School of Mechanical Engineering, Dalian Jiaotong University, China

Qingsheng Feng, Vice Dean of the School of Electrical Engineering, Dalian Jiaotong University, China

Fujian Ma, Vice Dean of the School of Mechanical Engineering, Dalian Jiaotong University, China

Organization

2025 International Conference on Advances in Electrical Engineering and Computer Applications

International Scientific Committee Chairs

Pascal Lorenz, Professor of University of Haute Alsace, France

Yang Yue, Professor of Xi'an Jiaotong University, China

Zhiwei Gao, Professor of University of Northumbria, UK

International Scientific Committee Members

Abid Yahya, Faculty of Engineering & Technology BIUST, Botswana

Alankrita Aggarwal, Apex Institute of Technology, Chandigarh University, India

Ajay B. Gadicha, P. R. Pote Patil College of Engineering and Management, India

Amine Khald, Université Kasdi Merbah-Ouargla, Algeria

Anand Nayyar, Duy Tan University, Vietnam

Arun Balodi, Dayananda Sagar University, India

Arup Neogi, University of Electronic Science and Technology of China, China

Azlan Mohd Zain, Universiti Teknologi Malaysia, Malaysia

Bimal K. Bose, The University of Tennessee, USA

Biplob Ray, Central Queensland University, Australia

Boris Andrievsky, Baltic State Technical University, Russia

Cheng Siong Chin, Newcastle University in Singapore, Singapore

Chinmay Chakraborty, Birla Institute of Technology, India

Chunhua Liu, City Unviersity of Hong Kong, China

Danilo Avola, Sapienza University of Rome, Italy

Deepak Kumar Panda, Amrita Vishwa Vidyapeetham University, India

Enrique Ciro Quispe Oqueña, Universidad Autónoma de Occidente, Colombia

George K. Adam, University of Thessaly, Greece

Hamed Taherdoost, University Canada West, Canada

Hui Na Chua, Sunway University, Malaysia

Jacek M. Zurada, University of Louisville, USA

Organization

Jamshed Iqbal, University of Hull, UK

Janusz Kacprzyk, Polish Academy of Sciences, Poland

Javier Gozalvez, Universidad Miguel Hernandez de Elche, Spain

Jawwad Nasar Chattha, University of Management and Technology, Pakistan

Jay Kumar Pandey, Shri Ramswaroop Memorial University, India

Jiliang Zhang, Northeastern University, China

Jing Fan, Heilongjiang International University, China

Joachim Holtz, University of Wuppertal, Germany

Jingyu Liu, Harbin Normal University, China

Joarder Kamruzzaman, Federation University, Australia

Kaya Kuru, University of Central Lancashire, UK

Kali Charan Rath, GIET University, India

K. Thamizhmaran, Govt. College of Engineering, Bodinayakkanur, India

Kuan Yew Wong, Universiti Teknologi Malaysia, Malaysia

K. Vasudevan, Indian Institute of Technology Kanpur, India

Larbi Boubchir, University of Paris 8, France

Leila Ghomri, University of Mostaganem, Algeria

Lin Wang, Dalian Jiaotong University, China

Ljiljana Trajkovic, Simon Fraser University, Canada

Luca Silvestri, Niccolò Cusano University, Italy

Luigi Fortuna, University of Catania, Italy

Madihah Mohd Saudi, Universiti Sains Islam Malaysia, Malaysia

Marco Cococcioni, University of Pisa, Italy

Marius Branzila, "Gheorghe Asachi" Technical University of Iaşi, Romania

Md Abdus Samad Kamal, Gunma University, Japan

Meng Joo Er, Dalian Maritime University, China

Organization

2025 International Conference on Advances in Electrical Engineering and Computer Applications

M. A. Jabbar, Vardhaman College of Engineering, India

Martin Cech, University of West Bohemia, Czechia

Michael Tribelsky, Lomonosov Moscow State University, Russia

Mihaela Popescu, University of Craiova, Romania

Mohamed A. A. Mohamed, University of Warwick, UK

Mohammad Kamrul Hasan, Universiti Kebangsaan Malaysia, Malaysia

Mohan Lal Kolhe, University of Agder, Norway

Mohd. Faisal Khan, Aligarh Muslim University, India

Monica Dutta, Chitkara University, India

Muhammad Firoz Mridha, American International University-Bangladesh, Bangladesh

Muhammad Usman, University of Science and Technology Beijing, China

Neeraj Gupta, NIT Srinagar, India

Nilgun Baydogan, Istanbul Technical University, Turkey

Omer K. Jasim, University of Fallujah, Iraq

Omid Mahdi Ebadati E., Kharazmi University, Iran

Patrick Siarry, Université Paris-Est Créteil, France

Philip W. T. Pong, New Jersey Institute of Technology, USA

Pooja Singh, SIES Graduate School of Technology, Navi Mumbai, India

Preetish Kakkar, Adobe, USA

Raffaele Di Gregorio, University in Ferrara, Italy

Rahul Kar, Kalyani Mahavidyalaya, India

Rajdeep Chakraborty, Medi-Caps University, India

Samrat Ray, International Institute of Management Studies, India

Seyed Mohammad Ayyoubzadeh, Tehran University of Medical Sciences, Iran

S. Masoud Barakati, University of Sistan and Baluchestan, Iran

Shashikant Patil, Atlas SkillTech University, India

Organization

2025 International Conference on Advances in Electrical Engineering and Computer Applications

Siddhartha Bhattacharyya, Christ University, India

Smain Femmam, UHA University, France

Sunday Adeola Ajagbe, Ladoke Akintola University of Technology, Nigeria

Tokeer Ahmad, Jamia Millia Islamia, India

Umesh C. Pati, National Institute of Technology, India

Valentina Emilia Balas, Aurel Vlaicu University of Arad, Romania

Venkataramaiah Gude, GP Technologies LLC, USA

Vinayak Ashok Bharadi, Finolex Academy of Management and Technology, India

Wanwan Li, The University of Tulsa, USA

Yang Han, University of Electronic Science and Technology of China (UESTC), China

Yilun Shang, Northumbria University, UK

Yutian Liu, Shandong University, China

会议日程

2025 International Conference on Advances in Electrical Engineering and Computer Applications

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	茶歇丨墙报展示
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	午餐丨午休
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

会议日程

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: 郑谕伟，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

2025 International Conference on Advances in Electrical Engineering and Computer Applications

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	**主题报告 1:** Madihah Mohd Saudi 教授，马来西亚伊斯兰理科大学 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？
09:30-10:00	**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
10:00-10:30	**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
10:30-11:00	**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
11:00-11:30	**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
11:30-12:00	**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
12:00-12:30	**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
12:30-13:30	午休
13:30-14:00	**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
14:00-14:30	**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)
14:30-15:00	**主题报告 10:** Mohamed-Slim Alouin 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

会议日程

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

2025 International Conference on Advances in Electrical Engineering and Computer Applications

<table>
<tr><td colspan="2">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</td></tr>
<tr><td>08:00-09:00</td><td>On-Site Registration</td></tr>
<tr><td>09:00-09:20</td><td>Opening & Welcome Speech
Host: Prof. Ronghua Li, Dean for School for Electrical Engineering, Dalian Jiaotong University, China</td></tr>
<tr><td>09:20-09:30</td><td>Group Photo</td></tr>
<tr><td>09:30-10:10</td><td>Keynote Speech 1:
Prof. Yang Yue, Xi'an Jiaotong University, China
Title: Multiparameter Monitoring of Optical Performance in Communication Channels</td></tr>
<tr><td>10:10-10:50</td><td>Keynote Speech 2:
Prof. Zhiwei Gao, University of Northumbria, UK
Title: Fault diagnosis and fault tolerant control approaches for wave energy conversion systems</td></tr>
<tr><td>10:50-11:10</td><td>Tea Break & Poster</td></tr>
<tr><td>11:10-11:50</td><td>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</td></tr>
<tr><td>11:50-13:30</td><td>Lunch Break</td></tr>
<tr><td>13:30-14:00</td><td>Invited Speech 1:
Assoc. Prof. Donghui Li, Dalian Jiaotong University, China
Title: Modeling and simulation of EMC for high speed train</td></tr>
<tr><td>14:00-14:30</td><td>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</td></tr>
<tr><td>14:30-14:45</td><td>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</td></tr>
</table>

Program

2025 International Conference on Advances in Electrical Engineering and Computer Applications

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

2025 International Conference on Advances in Electrical Engineering and Computer Applications

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

2025 International Conference on Advances in Electrical Engineering and Computer Applications

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

2025 International Conference on Advances in Electrical Engineering and Computer Applications

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

Program

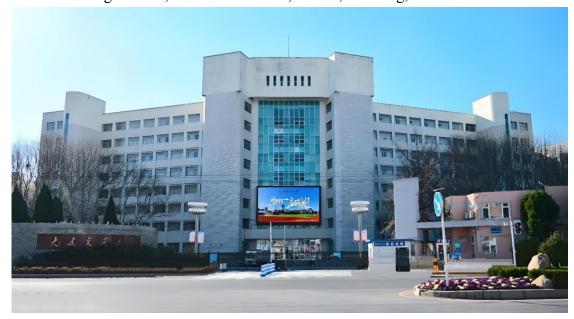| 16:15-16:30	Oral Presentation 6: Chongjing Dai, National Institute of Measurement and Testing Technology, China Title: Development of high voltage measuring device based on bipolar vector measurement
16:30-16:45	Oral Presentation 7: Lei Qin, China Academy of Machinery Science & Technology Qingdao Branch 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

2025 International Conference on Advances in Electrical Engineering and Computer Applications

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）