

As a premier IEEE conference, ICIEA is ranked in the **Top 15% of the Best Conferences** in the field of Electrical and Electronics Engineering ([www.research.com](http://www.research.com)). ICIEA is also ranked as a **Class A Conference** by the Chinese Association of Automation (CAA), as listed in CAA official website (<http://www.caa.org.cn/article/290/3225.html>).

The 19<sup>th</sup> IEEE Conference on Industrial Electronics and Applications (ICIEA 2024) will be held on 05-08 August 2024, in Kristiansand, Norway. The Conference is organized by the IEEE Industrial Electronics Chapter of Singapore, the University of Agder, and the IEEE Singapore Section. The IEEE Industrial Electronics Society is both the financial and technical sponsor.

ICIEA provides an inclusive platform for scientists, researchers, and industrial practitioners worldwide to present the latest technological advancement and to discuss the future directions and trends in Industrial Electronics. **The proceedings of past ICIEAs have all been included in the IEEE Xplore database and indexed by EI Compindex.**

Authors are invited to submit full papers describing original research work in areas including, but not limited to:

**Artificial Intelligence:** Generative AI, Natural language processing, video analytics, Speech recognition, Object recognition, Gesture recognition, Machine learning, Knowledge Representation, Reasoning, Deep learning, ANN

**Control and Systems:** Adaptive & intelligent control, Hybrid control, Digital control, Robust control, Nonlinear systems & control, Process control, Networked control, Cooperative control, Cyber-physical Systems

**Energy and Environment:** Energy management, Energy distribution, storage & recovery, Alternative & green energy, Waste management & recycling, Intelligent micro-grids, Renewable energy, Demand management

**Industrial Informatics and Computational Intelligence:** Diagnosis & prognosis, Networked embedded controllers, Multi-agent systems, Fuzzy systems, Genetic algorithm, Data mining, IoT, Distributed computing

**Network and Communication Technologies:** Mobile computing, Mobile ad hoc networks, Mobile agents, Network architectures, Quality of services, Cross-layer design/optimization, Traffic control, Wireless systems, MU-MIMO systems, Optoelectronics & Optical Communication

**Power Electronics:** Power devices & components, Electrical machines & drives, Power quality control, FACTS, PFC, STATCOM, Harmonic analysis & compensations, Switching circuits & power converters, Motors and drives, Smart grid, Distribution generation & electrical vehicles, Wireless power transmission, Energy harvesting

**Robotics:** Robotics vision, Visual servoing, SLAM, LIDAR, Sensor fusion, Actuators, Motion control, Robot-human collaboration, Remote operation, Autonomous mobile robot, Reinforcement learning, 3D simulation, AI for robotics, Industrial application case studies, Generative design & optimization of robotics systems

**Signal and Information Processing:** Image processing, Computer vision, Bio-image processing, Audio/video processing, Data processing, Estimation & identification, Remote sensing, Information fusion, Brain computer interface, Signal transforming & filtering, Digital system design & structures, Optimization techniques.

**Special Sessions:** Special Sessions are an integral part of the ICIEA technical program. Proposals are invited for special sessions focused on topics of great relevance to the ICIEA conference. Prospective organizers should submit proposals to one of the Special Session Chairs: Prof. Wenjian Cai ([wjcai123@163.com](mailto:wjcai123@163.com)), Prof. Weihai Chen ([whchenbuaa@126.com](mailto:whchenbuaa@126.com)), Prof. Fanglin Luo ([fanglinluo@gmail.com](mailto:fanglinluo@gmail.com)), Prof. Linga Reddy Cenkeramaddi ([linga.cenkeramaddi@uia.no](mailto:linga.cenkeramaddi@uia.no)), Prof. Zhihong Man ([zman@swin.edu.au](mailto:zman@swin.edu.au)), Prof. Mingyi He ([myhe@nwpu.edu.cn](mailto:myhe@nwpu.edu.cn)), Prof. Xiaohong He ([hexq@swjtu.edu.cn](mailto:hexq@swjtu.edu.cn)), Prof. Dimosthenis Pefitsis ([dimosthenis.pefitsis@ntnu.no](mailto:dimosthenis.pefitsis@ntnu.no)), or Prof. Qianwen Xu ([qianwenx@kth.se](mailto:qianwenx@kth.se)).

**Best Paper Award:** The best paper awards will be presented at the conference. The winners will be selected by the Award Committee based on both technical contents of the paper and the author's on-site presentation. Winners need to be physically present at the conference banquet to receive the awards.

**Paper Submission:** Please submit full papers to the conference website at <http://www.ieeeic2024.org>. All submitted papers should be in the form of .pdf or .ps file and are to be limited to a maximum length of 6 pages (Letter size, single space, Times Roman of font size 10, two columns format), including figures, tables and references. Please use the template which is available from the website.

### Plenary Keynote Speakers:

- Professor Bruno Siciliano**, IEEE fellow, ASME fellow, IFAC fellow, past president of IEEE Robotics & Automation Society, University of Naples Federico II, Italy
- Professor Akshay Kumar Rathore**, IEEE Fellow, Singapore Institute of Technology (SIT), Singapore
- To be advised*

### Important Dates:

Deadline for Full Paper submission	31-Dec-2023	10 Feb 2024
Deadline for Special Session Proposals	31-Jan-2024	29 Feb 2024
Notification of Acceptance		31 Mar 2024
Deadline for Camera Ready Manuscript Submission		30 Apr 2024
Deadline for Authors' Registration		31 May 2024

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#### Contact:

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email: [secretariat@ieeeic2024.org](mailto:secretariat@ieeeic2024.org)

