



## Call for Papers

### Track 02 – Artificial Intelligence in Industrial Applications

- **Focus** - This technical track focuses on current and emerging topics of artificial intelligence that are relevant and important for industrial applications and industrial information technologies. It is aligned to the transformation of industrial informatics from model-based solutions to generative, data-driven solutions that address the challenges of dynamic and non-deterministic digital environments.

#### Topics

- **Machine Learning**
  - Deep Learning and large pretrained models in industrial applications
  - Hyperdimensional computing for energy efficient machine learning on the Edge
  - Automated machine learning
  - Online learning from data stream
  - Unsupervised machine learning
  - Scalable machine learning
  - Machine learning for multimodal information fusion
  - Explainable Artificial Intelligence (XAI) and traceable machine learning
  - Text, image, audio, video and social media analysis in industrial applications
  - Anomaly and Fault Detection;
  - Predictive Maintenance and data-driven prognostics;
  - Forecasting methods for industrial applications;
  - Soft Sensing and Virtual Metrology;
  - Data-driven technologies for Industrial Internet of Things (IIoT);
- **Semantic Reasoning and Digital Twins**
  - Semantic models for industrial applications
  - Probabilistic reasoning on IIoT data
  - Combined reasoning and machine learning in digital twins
  - Context and semantic learning for industrial domain expertise
  - Digital thread models
- **AI methods for making Human-Machine Interaction Intelligent**
  - Intelligent human behaviour monitoring in industrial scenarios
- **Optimization and Control**
  - Reinforced learning in control
  - Fuzzy based control
- **Aim & Scope** – IEEE INDIN is a flagship conference of IEEE Industrial Electronics Society providing a forum for presentation and discussion of the state-of-art and future perspectives of industrial information technologies.
- **Solicited Papers**
  - Regular research papers reporting on new developments in technological sciences
  - Special Session papers to stimulate in-depth discussions in special areas relevant to the conference theme
  - Industry and development papers reporting on actual developments of technology, products, systems and solutions
  - Tutorials

#### Track Chairs

- Daswin De Silva, La Trobe University, Australia
- Khan Muhammad, Sungkyunkwan University, Korea
- Gian Antonio Susto, University of Padova, Italy

#### Track Program Committee

- Jamil Ahmad, Islamia College Peshawar, Pakistan
- Daminda Alahakoon, La Trobe Univ., Australia
- Victor Hugo C. de Albuquerque, Federal University of Ceará, Brazil
- Zafar Ali, Southeast University, China
- Sambit Bakshi, National Institute of Technology Rourkela, India
- Andrea Carron, ETH, Switzerland
- Aldemir Cavallini, Uni. Uberlandia, Brazil
- Wenbin Dai, Shanghai Jiao Tong University, China
- Alberto Dalla Libera, University of Padova, Italy
- Davide Dalle Pezze, University of Padova, Italy
- Javier Der Ser, Technalia, Spain
- Olga Fink, EPFL, Switzerland
- Tanveer Hussain, University of Leeds, UK
- Seokho Kang, Sungkyunkwan Univ., South Korea
- Stamatis Karnouskos, SAP, Germany
- Irfan Khan, Oakland University, USA
- Mustaqeem Khan, MBZUAI, UAE
- Salman Khan, Oxford Brookes University, UK
- Sanaz Kianoush, CNR, Italy
- Andreas Kyek, Alexander Thamm, Germany
- Chia-Yen Lee, National Taiwan University, Taiwan
- Shuai Liu, Hunan Normal University, China
- Miguel Martinez Garcia, Loughborough Univ., UK
- Rashmika Nawaratne, La Trobe Univ., Australia
- Lucas Nei Brito, University Uberlandia, Brazil
- Azraai Razman, Univ. Malaysia Pahang, Malaysia
- Zia Ur Rehman, Huanggang Normal University, China
- Muhammad Sajjad, Islamia College Peshawar, Pakistan
- Abdul Khader Jillani Saudagar, Imam Mohammad Ibn Saud Islamic University, Saudi Arabia
- Stefano Scanzio, CNR, Italy
- Lorenzo Servadei, Infineon, Germany
- Gautam Srivastava, Brandon University, Canada
- Prayag Tiwari, Halmstad University, Sweden
- Marco Todescato, Fraunhofer, Italy
- Amin Ullah, Oregon State University, USA
- Fath U Min Ullah, Sejong University, South Korea
- Hayat Ullah, Kansas State University, USA
- Mohib Ullah, NTNU, Norway
- Ijaz Ul Haq, Oakland University, USA
- Shuihua Wang, Leicester University, UK
- Chen-Wei Yang, Lulea University, Sweden

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## Important Dates

**Submission of papers (regular, special sessions)**

March, 01, 2023 – March, 31, 2023

**Notification of acceptance**

April, 15, 2023 – May, 15, 2023

**Submission of final manuscript**

June, 05, 2023