



# Industrial Artificial Intelligence

Industrial Artificial Intelligence (IAI) serves as the first dedicated peer review research forum to publish and discuss all scientific fields of research pertaining to or concerning Industry, specifically in the context of how Artificial Intelligence and Machine Learning practices can be applied for improvement and optimization that appear in process industries and applications of the industrial internet. IAI emphasizes the publication of advanced machine learning algorithms that meet the requirements of industrial processes and encourages real-world case studies. Technically, IAI addresses the development of AI techniques that offer an improved solution with respect to increasing prediction accuracy, handling uncertainties in data and processes, meeting real-time requirements in industrial data modelling, control and optimization, and providing physical interpretation in learner models and/or obtained results.

IAI will accept submission of research articles and encourage discussions centered around the utilization of Artificial Intelligence techniques, both established and cutting-edge developments, to optimize or beneficially disrupt modern industrial practices. The journal will be among the first to provide a concentrated scientific approach to systematically theorize and apply novel synergies of AI/Machine Learning to virtually every facet of industrial chains.

Topics to be covered include but are not limited to:

- Machine learning-based intelligent sensors
- Lightweight computing and industrial internet
- Data mining and industrial big data analytics
- Advanced intelligent control techniques
- Industrial process operational optimization and decision-making
- Abnormal situation monitoring, product quality surveillance, fault diagnosis, and predictive maintenance
- Applications including digital twin, virtual manufacturing, power engineering, chemical engineering, and mining engineering

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