

Special Issue

Hybrid Artificial Intelligence for Smart Process Control

Message from the Guest Editors

The rapid advancements in artificial intelligence (AI) are transforming smart process control, enabling adaptive, autonomous, and reliable industrial operations. This Special Issue aims to explore the cutting-edge research and practical implementations of hybrid AI systems in smart process control. It seeks contributions that highlight how knowledge-based AI (symbolic reasoning and expert systems), deep learning-based AI (data-driven machine learning), and agent-based AI (autonomous systems) can be effectively combined to address challenges in industrial automation, predictive maintenance, fault diagnosis, and autonomous systems. We invite researchers, practitioners, and industry experts to contribute original research articles, reviews, and case studies that address the following themes:

- Hybrid AI in Process Control
- Predictive Maintenance using Hybrid AI
- Edge AI and Cloud System for Real-Time Process Control
- AI-Driven Control Loop Optimization
- Sustainability and Environmental Impact

We encourage submissions that not only advance academic knowledge but also offer practical insights and solutions for industry implementation.

Guest Editors

Prof. Dr. Ján Pitel'

Department of Industrial Engineering and Informatics, Faculty of Manufacturing Technologies with a Seat in Presov, Technical University of Kosice, 080 01 Presov, Slovakia

Prof. Dr. Haruki Ueno

Principles of Informatics Research Division, National Institute of Informatics, Tokyo 101-8430, Japan

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Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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