Special Issue

Artificial Intelligence and Process-Aware Systems in the Industry 5.0 Era: Industrial and Higher Education Applications

Message from the Guest Editor

The increasing adoption of Artificial Intelligence (AI) is profoundly transforming both industrial systems and educational environments, particularly in the context of the transition toward Industry 5.0. This transition emphasizes human-centricity, resilience, and sustainability, calling for intelligent systems that effectively integrate technological capabilities with human knowledge, skills, and decision-making. In industrial contexts, AI-enabled process-aware information systems and digital twins are increasingly used to support the understanding, design, and improvement of complex socio-technical systems, enabling organizations to cope with growing complexity and uncertainty. In parallel, similar system-oriented approaches are gaining attention within higher education, where universities are challenged to prepare future professionals for data-intensive, AI-driven industrial ecosystems. This Special Issue aims to bring together researchers and practitioners interested in the role of AI and process-aware information systems across industrial and university educational settings.

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Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

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