

Special Issue

AI and Industry 4.0

Message from the Guest Editors

The convergence of artificial intelligence (AI) and Industry 4.0 is revolutionizing the landscape of industrial systems by embedding intelligence directly into machines, production lines, and control architectures. This synergy is embodied in a new generation of smart industrial assets, ranging from collaborative robots and autonomous mobile platforms to adaptive process controllers and intelligent manufacturing cells, which together constitute embodied intelligence systems. These systems not only perform complex operations with human-free intervention but also learn and adapt in real time based on their interactions with the physical and cyber environment. Topics of interest include, but are not limited to, the following:

- Embodied intelligence for manufacturing and logistics.
- Industrial agent architectures and coordination.
- Multi-modal, uncertainty-aware sensor fusion.
- Time-Sensitive Networking (TSN) and 5G for deterministic AI pipelines.
- Real-time, deadline-aware inference, and co-scheduling.
- Trustworthy industrial AI (robustness, explainability, verification, and certification).
- Privacy-preserving/federated learning and data governance.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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