Special Issue

Privacy-Preserving and Trustworthy AI for Industrial 4.0 and Beyond

Message from the Guest Editors

This Special Issue calls for original research and reviews on methodologies, frameworks, systems and empirical studies that advance the state of the art in privacypreserving and trustworthy Al tailored to industrial settings-including federated/edge learning, multistakeholder data ecosystems, secure IoT/IIoT networks, explainable and auditable Al, safe deployment in autonomous industrial operations, and lifecycle assurance of trusted Al systems. We welcome contributions that span foundational theory (e.g., cryptographic, statistical or systems guarantees), algorithmic design (e.g., federated learning with privacy/robustness, transparent ML in industrial contexts), system implementation (e.g., deployment in smart factories, energy grids, supply-chain networks) and real-world case studies (e.g., industrial pilot results, regulatory or governance aspects). Our aim is to provide a definitive venue linking the demands of nextgeneration industrial ecosystems with trustworthy Al technologies, thus enabling secure, sustainable and intelligent industrial transformation.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Technologies, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that Technologies becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, Technologies will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

Editor-in-Chief

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