

## Special Issue

# Trends and Applications of Distributed Artificial Intelligence (AI) and Associated Systems

### Message from the Guest Editors

Distributed Artificial Intelligence (DAI) represents a significant paradigm shift in the development of intelligent systems, emphasizing decentralized, collaborative, and autonomous agents that work together to solve complex problems. DAI distributes these tasks across multiple interconnected nodes or agents, often leading to more scalable, fault-tolerant, and robust AI applications. Recent advancements in computing technologies, such as the proliferation of edge devices, the growth of Internet of Things (IoT), and the emergence of blockchain and federated learning, have catalyzed the evolution of DAI systems. This Special Issue aims to bring together cutting-edge research on the theoretical foundations, system architectures, and practical implementations of distributed AI. We encourage contributions that explore multi-agent systems, federated learning approaches, and decentralized decision-making mechanisms, with a focus on their applications in large-scale systems and real-world use cases. The exploration of challenges such as communication overhead, security concerns, and coordination among agents will also be a central theme in this Issue.

### Guest Editors

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### Deadline for manuscript submissions

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