

Special Issue

Edge Artificial Intelligence and Data Science for IoT-Enabled Systems

Message from the Guest Editors

The digital transformation of industry and society is being powered by the synergy of the Internet of Things (IoT), edge computing, and Data Science. This is a fundamental shift in how organizations create value, optimize operations, and address global challenges. The rapid data surge demands not only robust infrastructure but also smarter, autonomous analytical methods, making edge networks ideal for Data Science. Integrating the lifecycle of Data Science with edge computing, optimizing sensor data collection, analysis, and visualization, unlocks the potential for IoT devices to evolve from simple sensing to intelligent pattern recognition and autonomous decision-making. As IoT expands as a global data driver, Data Science becomes increasingly vital. This Special Issue invites original research and reviews on AI, edge computing, and data preprocessing for IoT-enabled decision-making, as well as mathematical concepts for improving IoT sensor systems. We also welcome submissions that perform comprehensive theoretical analyses of existing solutions by connecting the ideas and techniques of intelligent edge computing with other disciplines.

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