

Special Issue

Applications and Research in Information Systems, Big Data, IoT, Edge Computing and Edge Intelligence for Sustainable Digital Ecosystems

Message from the Guest Editor

We seek original research and case studies that bridge the gap between high-performance computing, distributed intelligence, and sustainable development. Topics of interest include, but are not limited to, the following: big data-driven insights for sustainability and resource optimization; green edge computing architectures for minimizing carbon footprints; AI-powered smart grids and renewable energy optimization; edge intelligence and federated learning for energy-efficient computing; ethical generative AI frameworks for responsible decision making in sustainability; the IoT and edge intelligence for real-time monitoring and analytics; cognitive computing models for predictive analytics in urban and rural sustainability; and secure and privacy-preserving edge computing for sustainable digital ecosystems. We welcome interdisciplinary contributions that explore novel methodologies, theoretical advancements, and real-world implementations demonstrating the role of Big Data, AI, IoT, and Edge Intelligence in shaping a more sustainable and intelligent digital future ecosystems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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