big data and cognitive computing

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Energy-Efficient IoT (Internet of Things) and Big Data Challenges for Connected Intelligence

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Message from the Guest Editors

Dear Colleagues,

With the ongoing development of the Internet of Things (IoT), artificial intelligence (AI), and AI as a service, we are rapidly moving towards connected intelligence, where the roles of Big Data become crucial, since individuals and critical cyber-physical systems completely rely on behavior and intuition of data. In future IoT and communication systems, energy-efficient, rational, trustworthy, and data-informed AI models become the key enablers to automatic IoT network and service management. Therefore, to support vertical IoT applications for the modern citizen, AI-supported methods, architectures, and system models are needed, where the system must meet a set of KPIs. Further, the modern IoT system must be scalable for adopting 5G and beyond communication systems. The envision of this special issue is to investigate energy-efficient IoT systems, AI models for analysis and evaluation, use-cases and case studies, as well as the comprehensive review on the roles of Big Data for leaping forward to connected intelligence. We encourage the research community to submit original research articles and comprehensive review articles.