Title: Smart Internet of Things and Intelligent Computing

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Guest Editor

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Introduction:

Internet of Things (IoT) plays an important role in the current and future generation of information, network, and communication developing and applications. Smart IoT is an exciting emerging research field that has great potential to transform both our understanding of fundamental computer science principles and our standard of living. IoT is being employed in more and more areas making "Everything Smart", such as smart home, smart city, intelligent transportation, environment monitoring, security systems, and advanced manufacturing. It is crucial to be able to quickly analyze and learn from the massive amount of generated data. Current approaches for big data analytics require full data transfer to a platform with large computational power, such as the cloud. Given the projected explosion in the number of devices and the resulting data generation rate, this is not feasible. In addition, many other open problems and challenges still exist, such as AI-built security Issues, cloud attacks, and botnet problems. International Conference on Smart Internet of Things (SmartIoT) and International Conference on Information Science and Technology (ICIST) focus on these challenges.

This Special Issue is dedicated to publish original research papers, which propose new methodologies, propose new research directions and discuss approaches or schemes for current existing issues. The key innovation is to use devices and computing power within the Internet of Things network itself to perform data analysis in a scalable, reliable fashion.

(Especially from the conferences SmartIoT2021 and ICIST2021.)

Topics of interests include, but are not limited to:

- IoT Sensing, monitoring, networking and routing
- Big data analysis and cloud computing
- Edge computing/fog computing
- Smart cities, intelligent transportation and internet of vehicles

- Artificial intelligence, machine learning and evolutionary computing
- Social networks, multimedia and mobile computing
- Blockchain and emerging research or technologies
- Industrial 4.0 and Industrial IoT
- Security and privacy for smart IoT or CPS
- Control and decision making for smart IoT or CPS