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Heterogeneous Sensor Communications and Networking for Future Applications

Guest Editors:

Dr. Bo Rong

Prof. Dr. Jalel Ben-Othman

Prof. Shuai Han

Dr. Peng Yu

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Message from the Guest Editors

The Internet of Things (IoT) is broadly regarded as the key to digitalized society today. Heterogeneous sensors with different abilities, such as different computing power, sensing features, elaboration capabilities, and sensing range, will be widely deployed in every corner of society, i.e., space, air, and ground, making heterogeneous integration a prominent feature of intelligent IoT. To overcome the high heterogeneity issues, new models should be developed to accommodate the large-scale geological deployment of sensor nodes and the universal network access of ubiquitous sensors. Considering the potential mobility, cooperation with mobile communication networks is a promising direction. To achieve these goals, novel architectures, protocols, and algorithms must be designed to intelligently adapt to the service requirement of smart applications. When the gathered information from multiple sensors is transmitted to a remote fusion center, caching and computing resources should be allocated to swiftly serve the data processing demand.

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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sensors@mdpi.com
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