Special Issue

Mobile Crowd Sensing and Applications

Message from the Guest Editor

Crowd sensing is a relatively recent paradigm that allows large groups of people to contribute to complex problem solving through the sensing, collecting, and sharing of data in disparate application domains. The pervasiveness of mobile devices and, in particular, recent technologies for context-awareness is providing a significant impulse toward spreading this paradigm, since approaches only based on people voluntarism could limit its adoption. However, several new problems need to be addressed for the large acceptance of crowd sensing-based solutions—these are related to social models for encouraging data acquisition and sharing; sensing technologies allowing mobile devices to automatically collect data around people; privacy and security issues especially when data collected refer to people, data quality, and reputation; as well as protocols and architectures for decentralized acquisition, communication and processing, and scalability problems.

Guest Editor

Prof. Eugenio Zimeo
Department of Engineering – University of Sannio

Deadline for manuscript submissions

closed (30 April 2021)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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

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