Special Issue

Internet of Things Technologies for Smart Cities

Message from the Guest Editors

The Internet of Things is permeating every single aspect of our lives, as the number of connected objects has long surpassed the world population, making such a paradigm a disruptive support for decision making in social, industrial, and urban scenarios. In particular, Smart Cities gain an impressive advantage from IoT pervasive infrastructures that are built around citizens. Requirements for such paradigms are platforms and applications which are context-aware and adaptable to social scenarios. On a city-wide scale, such paradigms bring along well-known challenges from many points of view, both technological and societal. For instance, we face the problem of IoT islands with little or no interoperability with each other, caused by the variety of standards and ad hoc solutions. Furthermore, building-pervasive infrastructure often means dealing with high costs, for which data integration and collaborative paradigms such as mobile crowdsensing have been demonstrated to be effective solutions. Lastly, many other challenges for city-wide scenarios are in need of crucial solutions, such as user privacy, ubiquitous connectivity, modeling, and big data information inference.

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Deadline for manuscript submissions

closed (31 March 2021)

IoT

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 8.7

mdpi.com/si/46451

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