

Annals of Telecommunications



**Call for papers
Special Issue on**

Future Networking Applications Plethora for Smart Cities

In recent years, many interest groups have focused on promoting various novel and emerging network paradigms for Smart City planning using IoT-enabled embedded devices and the application of Big Data. The existing Internet architecture was designed with the utmost goal of enabling end-to-end host centric communication that has drawn the attention of both academic and industrial experts to develop new network models for exchanging data between various type of technologies such Bluetooth, ZigBee, etc. Nowadays, “Softwarization” has become an ongoing crucial transformational force in communications technology industry, despite whether its roots are on mobile networks, content delivery, home connectivity, wireless, enterprise, IoT, data centers, cloud computing, and backbone networks. The IoT is progressively using by various firms and industries for the planning and development of future Smart City. However, without utilizing the previous context of the cities, it is quite difficult to design and plan a future Smart City. Therefore, the data generated by various IoT-enabled devices can be efficiently processed through various techniques and tools such as Hadoop ecosystem, etc. to plan a smart city. However, the existing techniques based on Map-Reduce paradigm, etc. are mainly designed to process offline data. Moreover, the existing technologies such as Software Defined Network (SDN), etc. can be made more intelligent and efficient to communicate the huge amount of data over the existing network with high speed.

The theme of this special issue is to provide an in-depth analysis both theoretically and analytically of the current advances in processing real-time data for optimal planning and management of a smart city. Moreover, the authors are expected to investigate state-of-art research challenges, results, architecture, application, and other achievements in the field of Big Data analytics used for smart city planning. High quality innovative unpublished papers, which are not currently under consideration in other journals, are solicited.

Topics of interest include, but are not limited to:

- Smart City architectures and planning using WSN
- The role of IoT in the planning of future Smart Cities
- Smart management and services
- Deployment of sensors
- Smart homes and its applications
- The role of cloud computing in IoT-based Smart Cities
- Big Data Analytics and Smart Cities
- IoT-enabled devices and technologies
- Real-Time data processing using Hadoop, SPARK, GraphLab, etc.
- System, design, modeling and evaluation
- Industrial applications of Smart Cities
- Future Internet cohesion with applications for Smart Cities
- Parallel and distributed data processing in IoT smart applications

Lead Guest Editor

- Mohamed Elhoseny, Faculty of Computer and Information Sciences, Mansoura University, Egypt

Guest Editors

- Xiaohui Yuan, CoVIS Lab Director, Department of Computer Science and Engineering, University of North Texas, Denton, Texas, USA
- Nam THOAI, Chair of the ICT Research Program supporting Smart Cities and Industry 4.0, Department of Science and Technology - HCM City, Vietnam
- T.M.T. Nguyen, Sorbonne University, France

Papers must describe original research that advances state-of-the-art research and must not be simultaneously submitted to a journal or a conference with proceedings. Papers must be written in excellent English and should not exceed 10 pages. Previously published or accepted conference papers must contain at least 40% new material to be considered for the special issue. A covering letter to the Guest editors clearly describing the extensions made must accompany these types of submissions. All submissions must be made using the instructions available at:

<http://annalsoftelecommunications.wp.mines-telecom.fr/how-to-publish/>

The authors can directly submit their papers at: <https://www.editorialmanager.com/ante/> and must select the menu "Choose Article Type" and then the item "CfP: Future Networking Applications Plethora for Smart Cities".

Proposed schedule

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