

Preface

Dear Reader,

Welcome to the Proceedings of the 9th International Conference on Wireless Communication and Sensor Networks (WCSN 2013) organized by the Indian Institute of Information Technology, Allahabad.

A number of developments in the area of Wireless Communication Technologies, Embedded Processors, Semantic Web, Smart Surroundings, Network Devices, and Sensor Networks have taken place over the past 9 years in the broad area of Wireless Communication and Sensor Networks, and these make it possible to take up real life applications. These technologies have reached a level of maturity that would allow the creation of large, reliable, and pervasive services for the benefit of the society. Thus, Wireless Communication and Sensor Networks is of great interest to the research community due to its promised impact on the society. Wireless Sensor and Actor Networks (WSAN) not only promise to influence the world by their pervasive presence in the remotest locations, but also promise distributed monitoring and control.

The power-aware designs of network components, availability of adequate wireless channel bandwidths, availability of reliable sensor network components, and sensor network technologies enable us to build large and sustainable application systems that would benefit the society. Application areas such as health, agriculture, environment monitoring, industrial monitoring, structural monitoring, real-time tracking, and many other similar areas are looking for solutions from pervasive computing and wireless sensor networks.

If the sensor networks are to be used in real-life applications beyond the “concept proving” and “laboratory experimentation” stages, further investigations are needed on a number of challenging development issues. There are also challenges in developing intelligent, distributed, and collaborative processing, deployment of multimodal networks of significant size that would sense and act in wide areas in an unattended and a reliable manner.

The Ninth International Wireless Communication and Sensor Networks (WCSN 2013) Conference is organized to facilitate the information exchange with regard to the development of technologies, applications, and experiences with focus on large deployable applications.

A total of about 191 papers were received. Keeping in view the relevance, quality, and plagiarism issues, with the help of at least 2 reviewers per paper a total of 27 papers were accepted for presenting in the conference and for publishing in proceedings. Out of these papers 5 papers were withdrawn and the remaining 22 papers were organized into the following sections, in accordance with the conference themes:

Track 1: Wireless Communications

Track 2: Devices, Tools, and Techniques for WSN and other wireless networks

Track 3: Wireless Sensor Networks

Track 4: Sustainable Pervasive WSN Applications

This volume would be useful for researchers working in this fascinating and fast growing research area.

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