

Preface

This special issue titled “Internet of Things: Challenges and Opportunities” in the book series of “Smart Sensors, Measurement and Instrumentation” contains the invited papers from renowned experts working in the field. A total of 10 chapters have described the advancement in the area of Internet of Things, Wireless Sensors and Sensor Networks, protocols, topologies, Instrumentation architectures, Measurement techniques, Energy harvesting and scavenging, Signal processing, Design and prototyping in recent times.

In recent times, Internet of Things (IoT) has aroused great interest in the research, scientific and technological communities. Although wireless sensor networks have been in place for more than a few decades now, the smart wireless sensors, miniaturization, RFID have opened up a whole new application space of sensors. Internet of Things is different from traditional wireless sensor networks as well as computer networks and therefore poses more challenges to solve such as limited energy, restricted lifetime, etc.

Advancement in sensor technology, smart instrumentation, wireless sensor networks, miniaturization, RFID and information processing is helping towards the realization of Internet of Things. IoTs are finding applications in various areas of applications including environmental monitoring, intelligent buildings, smart grids and so on. This book provides design challenges to IoT, theory, various protocols, implementation issues and a few case studies.

We sincerely hope that the readers will find this special issue interesting and useful in their research as well as in practical engineering work in the area of biomedical sensing technology. We are happy to be able to offer the readers such a diverse special issue, both in terms of its topical coverage and geographic representation.

Finally, we would like to wholeheartedly thank all the authors for their contribution to this special issue.

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Internet of Things

Challenges and Opportunities

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