

Call for Book Chapters



Smart Environments: Perspectives, Challenges and Mathematical Modeling

Editors of this book would like to invite you to consider submitting a manuscript for publication in this volume. Objective of this book is to collect the quality works on the smart environments, compile it and make it accessible to all communities of Information and Communication Technology (ICT). All the accepted chapters will appear in the “Smart Environments: Perspectives, Challenges, and Mathematical Modeling” and will be published by CRC Press Taylor and Francis Group, with their authors name. The following describes the overview, aim and the guidelines for submission.

Overview

Since last few years, smart environments are evolving rapidly and users are shifting from local servers to community data centers. Increasing volume of internet and gigabit communications is giving birth to new applications of Internet-of-things (IoT) and Clouds. However, the rapidly changing and increasingly complex nature of networking, high speed communication and huge computations in these environments set challenges for the research community to come up with totally new solutions. Smart environments of IoT and Clouds are demanding for new architectures/frameworks of internet. To be designed new network/internet architectures should provide seamless access of emerging applications to users. To clarify Roles of IoT/clouds and to understand their implementation, there are demands for new mathematical models, innovative simulation environments and interactive application test-beds. Therefore, “Smart Environments: Perspectives, Challenges, and Mathematical Modeling” aim to offer innovative and daring approaches towards internet for the future. This book will provide compressive overview of smart environments, new emerging applications of IoT, clouds, sensor networks, intelligent systems and the architectures of the future networks.

The aim of the book

IoT, clouds computing, data centers, and future internet are hotspot research areas in ICT these days. We sense the need of gathering innovative works in these areas, compile them, and make them publicly available to ICT communities all over the world. This volume will consider publishing groundbreaking and high-quality research.

This book will serve as an excellent guide for surveying the state of the art approaches in Computational Intelligence applied to challenging real-world problems. Scientists, industry experts, IoT/cloud designers, academicians and practitioners (mostly in computer science, computer engineering, applied mathematics or management information systems) will all be benefited from the wide spectrum of successful application domains compiled in this volume. Senior undergraduate or graduate students may also discover in this volume uncharted territory for their own research endeavors.

Topics of Interests

Innovative research on the following topics will be considered for publication. All other aspects related to ICT, IoT, cloud computing, and future internet research are also welcomed.

- ICT design/ Protocol implementation
- IoT and cloud computing applications and scenarios.
- Security/Privacy/ Trust Simplicity for IoT and clouds
- Architectures of clouds, IoT, and future internet
- Wireless (RFID, Sensor/Vehicular/Ad-hoc/GRID) networks for the smart world
- Mathematical modeling and performance evaluation of IoT/ICT/and clouds scenarios
- M-M (machine to machine) and H-M (human to machine) communication in smart environments
- Virtualization techniques and models for Data Centers
- Service clouds (IAAS, SAAS, PAAS, DAAS)
- Performance and QoS of advanced networks
- Internet modeling, semantic web, and ontologies.
- High speed networks (communication/architecture)
- Other hot topics in IoT/clouds/ICT/future internet.

Important Dates

Submission Deadline: June 30, 2015

Notification of Acceptance: July 30, 2015

Final Camera Ready Chapter: August 31, 2015

Publication: September 31, 2015

Chapter Submission

Book chapters should be written in English with a single-column, single space format. Each newly submitted chapter should be not shorter than 11 pages including figures and references. The format for submitted papers should refer to the ELECTRONIC FORMAT REQUIREMENTS of the Springer-Verlag. Authors should submit their papers to the Editors.

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