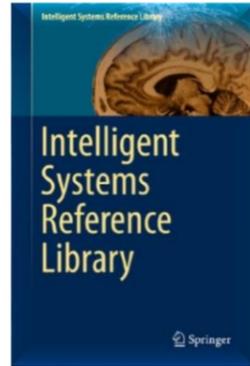


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BOOK SERIES TITLE: Intelligent Systems Reference Library “Springer”

BOOK TITLE: Principles of Internet of Things (IoT) Ecosystems: Insight Paradigm

**** **INDEXING:** ISI Web of Science, SCOPUS, DBLP, AND Springer Link ****

Scope of the Book:

The edited Book is intended to discuss the evolution of future generation Technologies through Internet of Things. The main focus of this volume is to bring all the related technologies in a single platform, so that Undergraduate and Postgraduate students, Researchers, Academicians, and Industry people can easily understand the IoT-enabled Technologies.

This book uses data and network engineering and intelligent decision support system-by-design principles to design a reliable IoT-enabled ecosystem and to implement cyber-physical pervasive infrastructure solutions. This book will take the readers on a journey that begins with understanding the insight paradigm of IoT-enabled Technologies and how it can be applied in various aspects. This book helps researchers and practitioners to understand the design architecture through IoT and the state-of-the-art in IoT countermeasures. It provides a comprehensive discussion on functional framework for IoT, object identification, IoT Domain Model, RFID technology, wearable sensors, WBAN, IoT semantics, Knowledge extraction, and security and privacy issues in IoT-based ecosystems. This book brings together some of the top IoT-enabled experts throughout the world who contribute their knowledge regarding different IoT-based technology aspects. This edited book aims to provide the concepts of related technologies and novel findings of the researchers through its Chapter Organization. Specifically, the far reaching references of various works and executions will be observed to be significant accumulations for engineers and organizations. The primary audience for the book incorporates specialists, researchers, graduate understudies, designers, experts and engineers who are occupied with research and health care related issues. The edited book will be organized in independent chapters to provide readers great readability, adaptability and flexibility.

Dr. Sheng-Lung Peng

CSIE Department, National Dong Hwa University, Taiwan



Dr. Souvik Pal

Department of Computer Science & Engineering, JIS College of Engineering, India

Dr. Lianfen Huang

Department of Communications Engineering, Xiamen University, China



Important Dates:

- | | |
|---|---------------------------------|
| 1. Page write-up (Abstract only with Title) : | 25 th November, 2018 |
| 2. Preliminary Acceptance Notification: | 5 th January, 2019 |
| 3. Full chapter Submission: | 31 st May, 2019 |
| 4. First Review Notification: | 15 th July, 2019 |
| 5. Revised Chapter Submission: | 31 st August, 2019 |
| 6. Acceptance Notification: | 5 th September, 2019 |
| 7. Camera-Ready Submission: | 2 nd October, 2019 |

Submission Link

https://easychair.org/cfp/Springer_IoT_Book_2019

For Any Clarification, Please Contact:

Dr. Souvik Pal

Mail ID: souvikpal22@gmail.com

***** Please Send your 1-Page write up / Abstract using the above link *****

Table of contents:

Topic to be discussed in the edited book (but not are limited to)

Include the followings:

- An overview: Foundation of IoT.
- IoT ecosystem Functional Framework: Logical and Physical Design protocols of IoT.
- Workflow Manager and Scheduling Techniques between data providers and resource providers in IoT Ecosystem.
- Intelligent Object Identification: Intelligent sensors, Micro Electro Mechanical Systems (MEMS), Object discovery, electronic product codes (EPC) and ubiquitous codes (uCode).
- IoT Sensing capabilities: Sensor deployment & Node discovery, Wearable sensors, Wireless Body Area Network (WBAN), Data acquisition.
- IoT Communication Model and protocols, IoT Domain Model, Topology, 6LoWPAN.
- IoT-enabled M2M Technology and Software-Defined Networking (SDN), RFID Technology, ultra-wide bandwidth (UWB), and Near Field Communication (NFC).
- IoT Semantics: Knowledge Extraction, Resource Description Framework (RDF) and the Web Ontology Language (OWL).
- IoT data Management, data aggregation & dissemination
- IoT Service lifecycle in a Smart Cloud, MicroVMs in Cloud-based cyber physical systems.
- Reference framework for IoT data analytics: IoT-based big data analytics, supply chain analysis, Industry-based market analysis.
- Intelligent Transportation Protocol in IoT: Route Generation & Scheduling, Fleet Tracking, Shipment Monitoring, Remote Vehicle Diagnostics.
- Energy-aware protocols and standards in IoT ecosystem, Low energy Bluetooth.
- Security vulnerabilities in traditional Wireless Sensor Networks in IoT, Block chain Technology in Data sharing in IoT.
- Privacy Management in IoT-enabled data storage, Privacy in crowd-sensing in IoT applications.
- Building blocks of an IoT Device: Device & Component Integration, Next-Gen Automation in IoT ecosystem.
- Industry-perspective IoT Technologies: Arduino, Intel Galileo, Raspberry Pi, BeagleBone, Cubieboard.
- Case study on Future Generation IoT:
 - *Agro-IoT*: Smart Irrigation, Crop e-monitoring, Green House Control.
 - *IoT-health Care*: Clinical Decision Support System, Disease Analysis and Prediction.
 - *IoT-enabled Power automation*: Smart Grids, Renewable Energy Systems, Prognostics.