

# CALL FOR BOOK CHAPTERS



**All the chapters published in this book will be submitted to SCOPUS for possible inclusion.**

**Book series Title:** Studies in Systems, Decision and Control - Springer

**Book Title:** Energy Conservation for IoT Devices: Concepts, Paradigms and Solutions

**Editors:**

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## **Scope of the book:**

The IoT is not just an evolution from present situations where the devices can be remotely controlled, it is a major disruption for energy efficiency applications by many aspects, such as the number of connected objects: It is estimated by 2020, 26 billion units will be installed. It has a major impact for energy efficiency, confirming the mega trend to connected objects. Everything must be connected, even if services are not defined at the beginning. But IoT will dramatically speed up this evolution and raise questions in the energy efficiency domain? Present architectures and technologies for connecting objects must adapt. But the relevant consortia are very numerous and diverse. The selection of one of them is highly important, but very difficult to make. The business models will be application and services, where analytics (Big Data) will be key. This is a dramatic change from today's applications, where the value is in devices (sensors/actuators).

## **Topics of Interest:**

This book focuses on energy efficiency concerns in IoT and the requirements related to Industry 4.0. It's the first-ever "how-to" guide addressing one of the most overlooked practical, methodological, and moral questions in any nations' journeys to conserve energy in IoT devices. It includes a detailed approaches required to conserve energy in IoT, and comparative case studies with respect to various performance evaluation metrics, such as energy conservation, state-of-the-art approaches, and IoT legislation. Each chapter should be describing detailed description of the novel energy conservation approaches required for IoT devices. We welcome book chapter contributions on the following (but not are limited to) themes:

1. Introduction to IoT and Energy Conservation
2. Existing Enabling Technologies and Solutions to Conserve Energy in IoT
3. The Importance and benefits to Conserve Energy in IoT
4. Energy-efficient system design for IoT devices
5. Software-Based Energy Conservation Techniques for IoT
6. Hardware-Based Energy Conservation Techniques for IoT
7. Policy-Based Energy Conservation Techniques for IoT
8. Awareness Based Energy Conservation Techniques for IoT
9. Recycling and changing-Based Energy Conservation Techniques for IoT
10. Training and Auditing Procedures for Energy Conservation in IoT
11. Governance and Policy Administration for Energy Conservation in IoT
12. Social Intelligence for Energy Conservation in IoT
13. Models and Algorithms for Energy Conservation in IoT
14. Ethical, legal, and social issues for Energy Conservation in IoT
15. IoT architecture for preventive Energy conservation of smart buildings
16. Energy Conservation in IoT-Based Smart home and its Automation
17. Energy Conservation in IoT-Based Intelligent Transport Systems
18. Smart Phones as a main component of IoT
19. Energy generation from Data Centers
20. Gamification for energy conservation in smart buildings

### **Important Dates:**

Page write-up (abstract only with title):	August 20, 2018
Preliminary acceptance/rejection notification:	August 27, 2018
Full chapter Submission:	October 10, 2018
First review notification:	November 15, 2018
Revised chapter submission:	November 30, 2018
Acceptance/Rejection notification:	December 10, 2018
Camera Ready submission:	December 30, 2018

### **Submission Procedure:**

Please send your one-page write up (with abstract of 300- 500 words and 6 keywords) of your chapter along with tentative TOC to any of the Editors Dr. Mamta Mittal ([mittalmamta79@gmail.com](mailto:mittalmamta79@gmail.com)), Dr. Sudeep Tanwar, ([sudeep.tanwar@nirmauni.ac.in](mailto:sudeep.tanwar@nirmauni.ac.in)), and Dr. Basant Agarwal ([basant@skit.ac.in](mailto:basant@skit.ac.in)) with the subject “**Springer Energy Conservation for IoT Devices- Book Chapter**”. Upon acceptance of the proposal, further instructions for submission guidelines according to the Springer will be communicated.

**“There is NO processing/publication charges for this Springer book”**