Table of Contents

Preface

Acknowledgements

Contributors

Part I: IoT Ecosystem Concepts and Architectures

- 1. Internet of Things: An Overview
- 2. Open Source Semantic Web Infrastructure for Managing IoT Resources in the Cloud
- 3. Device/Cloud Collaboration Framework for Intelligence Applications
- 4. Fog Computing: Principles, Architectures, and Applications

Part II: IoT Enablers and Solutions

- 5. Programming Frameworks for Internet of Things
- 6. Virtualization on Embedded Boards as Enabling Technology for the Cloud of Things
- 7. Micro Virtual Machines (MicroVMs) for Cloud Assisted Cyber-Physical Systems (CPS)

Part III: IoT Data and Knowledge Management

- 8. Stream Processing in IoT: Foundations, State-of-the-art, and Future Directions
- 9. A Framework for Distributed Data Analysis for IoT

Part IV: IoT Reliability, Security and Privacy

- 10. Security and Privacy in the Internet of Things: A Survey
- 11. Internet of Things- Robustness and Reliability
- 12. Governing Internet of Things: Issues, Approaches and New Paradigms
- 13. TinyTO: Two way Authentication for Constraint Devices in the Internet of Things
- 14. Obfuscation and Diversification for Securing the Internet of Things (IoT)

Part V: IoT Applications

- 15. Applied Internet of Things
- 16. Internet of Vehicles and Applications
- 17. Cloud-Based Smart Facility Management