

Scope of the Book:

The edited Book "AI based IoT Systems" is intended to discuss the evolution of future generation Technologies through Internet of Things in the scope of Artificial Intelligence. 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 AI algorithms, Machine Learning Algorithms, and Learning Analytics in IoT-enabled Technologies.

Table of contents:

- IoT ecosystem Functional Framework and knowledge Hierarchy
- Foundation of Learning and Analytics in Intelligent IoT-enabled Systems
- Learning system in IoT: training data, concept representation, function approximation
- IoT-enabled M2M Technology and Software-Defined Networking (SDN), RFID Technology
- CRISP-DM Frame work, Statistics and Exploratory Data Analytics for IoT-based environment
- Algorithms and architectures for high-performance computation for IoT-enabled framework
- Support Vector Machines and Artificial Neural Networks for IoT Devices
- Applications of Bayesian Learning, Decision Trees, clustering IoT-enabled systems
- Deep learning frameworks (architectures, generative models, deep reinforcement learning)
- Applications of Probabilistic Inference (Bayesian methods, graphical models, Monte Carlo methods)
- Application of computational Learning Theory and Expectation Maximization for IoT-enabled systems
- Game theory, no-regret learning, multi-agent systems for IoT-based ecosystem
- Data Management and analysis in Intelligent IoT devices
- Pricing model and billing systems in Intelligent IoT-based environment
- Intelligent Object Identification in IoT Devices: Intelligent sensors, Micro Electro Mechanical Systems (MEMS), Object discovery, electronic product codes (EPC) and ubiquitous codes (uCode)
- Integration of machine learning algorithms with mobile computing for cloud-based Internet of Things
- Machine Learning Algorithms, Nature inspired algorithms, and Computational Intelligence for cloud-based IoT
- Quantum Machine Learning, Computational Learning Theory for IoT-based environment
- Trustworthy Machine Learning (accountability, causality, fairness, privacy, robustness) for IoT-enabled systems
- Case Studies: Machine Learning Application in IoT

Important Dates:

1. One Page write-up (Abstract only with Title) :

15th June, 2020

2. Abstract Acceptance / Rejection Notification:

30th June, 2020

3. Full chapter Submission:

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