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Machine Learning: An Art of Computer Thinking

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Call for Chapters
Machine Learning: An Art of Computer Thinking

Aim & Scope

Machine learning techniques are offering the industry a viable way to construct Internet of Things (IoT) systems and to innovate quickly. A foundation for developing large-scale IoT applications that rely on data gathered from a complicated infrastructure of sensors and smart devices is provided by the Open IoT cloud platform. The implementation of such a framework faces many difficulties, one of which is the need to satisfy the Industrial Informatics-based applications' requirements for IoT data and services (quality of service (QoS)) in terms of energy efficiency, sensing data quality, network resource consumption, and latency. With regard to IoT quality of data and services for Industrial applications, the new era of convergence of machine learning approaches (supervised-unsupervised and reinforcement learning) comprises three basic components.

☐ End-to-end analytics,
☐ Intelligent systems of systems,
☐ Intelligent gadgets.

In order to bring more computer IoT data and services, this special issue integrates machine learning techniques, advanced data analytics, and optimization potential. Additionally, machine learning techniques have solved a number of IoT difficulties, including anomaly detection, multivariate analysis, streaming, and data visualisation. The inherent power of the fusion between machine learning algorithms and IoT applications in industrial informatics has actually been explored in recent research. It can offer practical answers to optimization issues, particularly those involving incomplete or inconsistent information and limited processing power in relation to the Internet of Things. This includes machine understanding of data that is structured or semi-structured (IoT). This special issue intends to discuss recent advancements in various IoT services, applications, and data as well as theoretical studies. Furthermore, time series data from IoT devices with sensor fusion and streaming can be considered to be more relevant to machine learning re-enforcement paradigms and predictive learning algorithms. It is also critical to mention that machine learning systems and optimization techniques have not been sufficiently examined in terms of IoT data and services (Quality of Services) and their related research challenges in industrial applications. Numerous important QoS measures, including system life time, latency, quality, delay, bandwidth, and throughput, all need to be taken into consideration when using machine learning algorithms to analyse IoT data and services.

The "Industrial Internet of Things" (IIoT) convergence with the 5G end-to-end network is driving the 4th industrial revolution and ushering in game-changing advances in a variety of industries, and this one-of-a-kind book gives you a unique glimpse into how. The book helps you understand how IIoT with 5G may be used to automate factories and make them more cost-effective by demonstrating how 5G-driven IIoT networks can give maximum performance for all industrial applications using major LTE and 5G NR characteristics.

Topics of Interest:

• Design and Evaluation of Energy Efficient Networks and Services in IoT
• Machine-Learning and Artificial Intelligence for Traffic/Quality of Experience Management in IoT
• Hybrid Intelligent Models and Applications for IoT in Industrial applications
• Nature-Inspired Smart Hybrid Systems for IoT Context-Aware Systems
• Machine learning and Data Analytics and Decision Automation in IoT for Industry
• Knowledge-Based Discovery with Evolutionary Algorithms for QoS in IoT devices
• Fuzzy Fusion of Sensors, Data and Information
• Meta-Heuristic Algorithms for IoT and wearable Computing
• Hybrid Optimization Methods Emerging real world and theoretical applications of IoT in Industry
• Innovative Deep Learning Architectures/Algorithms for Time Series Data and IoT
• Neural network modelling, analysis and synthesis techniques in ubiquitous communications
• Multi-Objective IoT System Modelling and Analysis—Performance, Energy, Reliability, Robustness
• Modelling and simulation of large-scale IoT scenarios and IoT standardization
• Machine learning for IoT and sensor research challenges: battery of sensor, routing, prediction of nodes etc.
• Quality aspects in the IoT (e.g., runtime dependability, assurances, validation, verification, privacy, security)
• State-of-practice, experience reports, industrial experiments, and case studies in the IoT
• Internet of Things, Industrial Internet of Things,
• Cyber-Physical Systems,
• Human-Machine Interaction,
• Artificial Intelligence, Deep Learning, Machine-to-Machine Interaction,
• End-to-end Security and Privacy,
• Smart Data,
• 5G and Network Slicing Technology

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