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Artificial Intelligence and Machine Learning

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Call for Chapters

Artificial Intelligence and Machine Learning

Aims and Scope:

The book provides an overview of Artificial Intelligence and Machine Learning, Intelligent Computing Techniques, Artificial Intelligence Applications, Intelligent Agents, Search Strategies, Scope of AI, Knowledge representation, Machine Learning, Machine Learning types, Machine Learning and their applications. Computer learning, artificial intelligence and its learning, adaptation paradigms are able to improve engineering applications. This decade is really about adding intelligence to different devices, services, etc. Artificial Intelligence and Machine Learning Techniques are a confluence of several technology enablers such as deep learning, computer vision, data analytics, smart image and signal processing, statistics, robotics, IoT etc. In this book, we solicit the submission of high-quality original chapters related to the next generation Intelligence of Things, Artificial intelligence, Smart information processing, IoT security, AI techniques and optimization algorithms. We seek original and high-quality submissions on, but not limited to

List of Topics:

Chapter 1:Foundations of Artificial Intelligence and Intelligent Systems in Your Everyday Life and AI Techniques
Chapter 2:Artificial Intelligence Applications and AI-based programming Tools
Chapter 3:Intelligent agents, Environments, Characteristics, PEAS Representation and Structure of intelligent agents.
Chapter 4:Search Strategies: Uninformed search strategies
Chapter 5:Search Strategies: Informed search strategies
Chapter 6:Knowledge representation issues, mapping, Predicate logic, and first-order logic
Chapter 7:Inferences in first order logic, forward chaining, backward chaining, unification, resolution.
Chapter 8:Symbolic reasoning under uncertainty, Non monotonic reasoning, and statistical reasoning.
Chapter 9:Scope of Artificial Intelligence
Chapter 10: Artificial Intelligence Role, techniques and optimization algorithms for industrial-level applications
Chapter 11: Artificial Intelligence and Intelligent Computing Techniques for health care decision support systems
Chapter 12: Game Playing, minimax search, and Alfa beta cut-offs
Chapter 13: Learning, Explanation-based learning, discovery, analogy, Neural net learning and Genetic Learning.
Chapter 14: Fuzzy logic systems, Perception and action, Expert systems, Inference in Bayesian Networks, K-means Clustering Algorithm.
Chapter 15: Machine Learning Introduction, Definition of learning systems, Goals and applications of machine learning.
Chapter 16: Aspects of developing a Machine learning system, training data, concept representation, function approximation.
Chapter 17: Types of Learning, Supervised learning and unsupervised learning, Overview of classification
Chapter 18:Classification Families, discriminative, decision trees, probabilistic, nearest neighbor.
Chapter 19: Logistic regression, Generative learning algorithms, Gaussian discriminant analysis, Naive Bayes, Support vector machines, Model selection and feature selection, Combining classifiers
Chapter 20: Machine Learning for Data Science with applications
Chapter 21: High performance Computing systems for applications in Autonomous driving, Healthcare decision support systems and recommendation systems

Author Benefits:

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