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Artificial Intelligence and their Applications

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Call for Chapters
Artificial Intelligence and their Applications

Aims and Scope:

The book provides an overview of enabling technologies like Artificial Intelligence, Intelligent Computing Techniques, Artificial Intelligence Applications, Intelligent Agents, Search Strategies, Scope of AI, 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 Intelligent Computing Techniques are a confluence of several technology enablers such as machine learning, 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, one or more of the following topics:

Chapter 1: Foundations of Artificial Intelligence and Intelligent Systems in Your Everyday Life
Chapter 2: Artificial Intelligence Applications and AI-based programming Tools
Chapter 3: Intelligent agents and Structure of intelligent agents
Chapter 4: Search Strategies: Uninformed search strategies
Chapter 5: Search Strategies: Informed search strategies
Chapter 6: Scope of Artificial Intelligence
Chapter 7: Artificial Intelligence Role, techniques and optimization algorithms for industrial-level applications
Chapter 8: Artificial Intelligence and Intelligent Computing Techniques for health care decision support systems
Chapter 9: Artificial Intelligence and Intelligent Computing Techniques based telemedicine and healthcare
Chapter 10: Artificial Intelligence and Intelligent Computing Techniques for communication systems
Chapter 11: Soft Computing for Emerging Applications
Chapter 12: High performance Computing systems for applications in Autonomous driving, Healthcare decision support systems and recommendation systems
Chapter 13: Machine Learning: Introduction, Basic concepts: Definition of learning systems, Goals and applications of machine learning.
Chapter 14: Types of Learning: Supervised learning and unsupervised learning. Overview of classification: setup, training, test, validation dataset, over fitting

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