The IET International Book Series on Applied AIoT

Artificial Intelligence of Things (AIoT) is the convergence of AI and IoT. While IoT deals with devices interacting through the internet, AI makes the devices learn from their data and experience to provide next-generation intelligent systems. This concept is redefining the way industries, business, and economies function. The features of AIoT technology include decentralized and distributed smart computing techniques, big-data exchange across peer-to-peer and other types of Internet of Things (IoT) oriented networks, creating the potential to remove unintended waste in resources by providing automation as well as accountability in optimization and intelligence. The disruptive AIoT technology has not only laid the foundation for all smart-spaces but also provides beneficial solutions in other fields of technologies.

With this new book series, we plan to comprehensively cover the current trends and technological aspects of applied AIoT techniques. We will focus on Magnitude (scope, scale & frequency), Risk (security, reliability, trust, and accuracy) and Time (latency & timelines, utilization and implementation details of IoT technologies). We aim to provide up to date advances and cover emerging computing and telecommunication paradigms in Artificial Intelligence (AI) and Internet of Things (IoT) technology and their implementations in interdisciplinary fields such as Computer and Communication Sciences, Transportation, Power Engineering, The Built Environment, Environmental Science, Applied Mathematics, Business Management and Medical Science.

About the Book Series Editor:

Professor Fadi Al-Turjman is Full Professor and Research Centre Director at Near East University, Nicosia, Cyprus. He is a leading authority in the areas of smart/ intelligent IoT systems, wireless, and mobile networks' architectures, protocols, deployments, and performance evaluation in Artificial Intelligence of Things (AIoT). His publication history spans over 350 SCI/E publications, in addition to numerous keynotes and plenary talks at flagship venues. He has authored and edited more than 40 books in the areas of cognition, security, and wireless sensor networks' deployments in smart IoT environments. He also organizes international conferences and symposiums in the fields of AI and IoT. He serves as book series editor and lead guest/associate editor for several top tier journals including *IEEE Communications Surveys and Tutorials* (IF 23.7) and *Sustainable Cities and Society* (IF 5.7). He received his PhD Degree in Computer Science from Queen's University, Ontario, Canada.

Topics to be covered include:

– **Artificial Intelligence (AI) algorithms for AIoT**

– **Machine learning and deep learning for AIoT**

– **Internet of Things (IoT) technologies for AIoT**

– **Cloud, edge, fog and dew computing for AIoT**

– **AIoT-based innovative applications and services**

– **Security and Privacy issues in AIoT**

– **Large-scale sensor networks for AIoT**

– **5G technology enabled AIoT**

– **Unmanned Aerial Vehicle (UAV) aided AIoT**

– **Mobile Computing and Location-Based Services (LBS) for AIoT**

– **Wearables**

– **Automation**

– **Smart homes**

– **Smart cities**

– **Smart industries / Industrial 4.0**

– **Voice AI**

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Please contact:

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