TWMS Pure and Applied Mathematics

Special Issue on: Dynamic Big Data-driven Intelligent Systems forSustainable Smart Society Development

Aim and Scope

This special issue will mainly cover the sustainability of a green environment towards economics and society in terms of alteration in industrial pollution levels, the effect of reduced carbon emissions, changes in water bodies characteristics for heavy metal contamination, monitoring of associated impact concerning ecology and biodiversity, the impact of reduced noise levels and Air quality influences on human health, handling and management of biomedical waste. The advent of 'sustainability' in development science has led planners to apply evolving notions of 'sustainability' to the contemporary debate over how cities and regions should be revitalized, redeveloped, and reformed. The recent advanced technology helps to promote green and clean modern societies continuously. The Internet of Things (IoT) will be playing an important role in the upcoming years in environmental protection and sustainable development. This special issue will also offer valuable perceptions to researchers and engineers on how to design IoT systems and improve societal big data information processing securely. End-to-end big data connectivity involves developing many technologies that should enable reliable and location-agnostic communication. However, the main challenge in a smart society is how to manage concerning critical applications, where several connected devices generate a large amount of data.
Furthermore, additional focus will be given to areas related to the role of Artificial intelligence, big data, data mining, and machine learning in dynamic modeling and deploying and complex big data-driven sustainable smart society (Big_S3). It aims to present the most important and relevant advances to overcome the challenges related to security, data analytics, communication networks, and energy-aware solutions in the Internet of Things.

Topic

Novel security architectures, protocols, or applications for Big_S3
Threat modeling in smart society
Risk Assessment in smart society
Energy-aware secure communications in Big_S3
Disaster recovery for Big_S3
Access control for shared data in IoT devices
Software-Defined Networking for Big_S3
Machine learning and data mining for Big_S3
Distributed data mining and machine learning systems for Big_S3
Security of mobile solutions for Big_S3
Alteration in industrial pollution levels effect during pandemic
Datasets for Air quality index and its impact in human health
Handling and management of biomedical waste for Big_S3
Environment and eco-friendly technology and innovative solutions
Sustainable development for smart city, smart grids, smart health, air quality trackers
Intelligent recycling system for Big_S3
Green economy, eco-efficiency, ecology
Internet of things for environment protection and development Artificial
Intelligence and Internet of Things for green societies

Tentative Schedule:

Paper submission deadline: 30 December 2023
First-round notification: 15 February 2024
Revision deadline: 15 April 2024Final
decision notification: 2024

Guidelines

Authors can submit their manuscripts to "TWMS Pure and Applied Mathematics" via Email twms.aliev@gmail.com with the words "Dynamic Big Data-driven Intelligent Systems for Sustainable Smart Society Development" in the subject line . Only papers with new and outstanding results related to sustainable smart society development within this scope will be considered for review. Routinely submissions and papers with only theoretical values will be directly rejected without being sent to review. Please however feel free to contact: twms.aliev@gmail.com

Please note that papers will have to adhere to the journal space and style requirements.
Sample.pdf
Sample.tex

Guest Editors

Dr. Chinmay Chakraborty, Birla Institute of Technology, India, Email: cchakrabarty@bitmesra.ac.in
Dr. Gabriella Casalino, University of Bari, Italy, Email: gabriella.casalino@uniba.it