Special Issue

Smart Cities—the Role of Transportation, Artificial Intelligence, and Big Data

Message from the Guest Editors

The concept of smart cities has become increasingly relevant in the past few decades. There exists a plethora of current research and application efforts in the smart cities domain, including intelligent transportation systems (ITS), artificial intelligence (AI), and big data. For example, advancements in AI and machine learning have greatly enhanced autonomous vehicle (AV) capabilities for safe and efficient traffic operations. Similarly, alternative fuels for vehicles which include electric, natural gas, and hydrogen yield benefits including reduced long-term costs of vehicle operations, enhanced energy efficiency and security, improved air quality, and environmental sustainability. Further, ongoing improvements in vehicle connectivity via advanced communication technologies and cyber infrastructure systems are helping to collect, transmit, analyze, and store big data efficiently.

In view of the complex and interdisciplinary nature of the topic, this Special Issue welcomes submissions of innovative research that investigate the role and inter-relationships among transportation systems, AI, and big data toward the goal of realization of smart cities.

Guest Editors

Dr. Sikai Chen

Prof. Dr. Samuel Labi

Prof. Dr. Ali Karimoddini

Prof. Dr. Hualiang (Harry) Teng

Deadline for manuscript submissions

closed (15 June 2023)

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Editor-in-Chief

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