Special Issue Call for Papers

Smart Transportation Based on Multimedia Data Mining

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The advent of new technologies such as the Internet of Things (IoT) and cloud computing has brought opportunities for the development of Smart Transportation. In line with the essential of “smart cities”, smart transportation highlights the use of data. In particular, data are captured in large quantity, from multi-source, and in real-time. Moreover, Smart Transportation lays greater emphasis on knowledge discovery, information sharing and supported decision making. This new notion involves some tasks in which traditions are replaced by intelligent technology requiring manual discrimination and resolution to reach the optimization. In addition, with the development of Internet of Vehicles, Smart Transportation pays greater attention to the interconnection between transportation system and other information systems to the maximum extent possible. Then it can be seen that further efficient management and deeper analysis of transportation data are the key tasks in developing smart transportation.

This special issue calls for high quality, up-to-date technology related to Smart Transportation based on multimedia data mining and serves as a forum for researchers all over the world to discuss their works and recent advances in this field. In particular, the special issue is going to showcase the most recent achievements and developments in transportation pattern discovery and exploration. Both theoretical studies and state-of-the-art practical applications are welcome for submission. All submitted papers will be peer-reviewed and selected on the basis of both their quality and their relevance to the theme of this special issue.

Topics of interest for the Special Issue include, but are not limited to:

- Internet of Things and Internet of Vehicles
- Transportation Data Mining and Exploration
- Data-driven urban transportation management
- Traffic sensing, control and management
- Cloud Computing Platform Based Big Data Mining
- Fusion of multisource mobility data
- Spatiotemporal visual analysis
- Pattern Recognition and Computer Vision
- Pervasive and Ubiquitous Technology
- Virtual Reality/ Augmented Reality and Human-Computer Interaction
- Virtual Reality Geographical Information System
- Multimedia Communications and Visual Signal Processing

All papers will be peer-reviewed following the Multimedia Tools and Applications reviewing procedures. Authors should prepare their manuscripts according to the online submission page of Multimedia Tools and Applications at www.Springer.com/11042