Theme: Smart Transportation Based on Multimedia Data Mining

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Aims & Scope:

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.

Description:

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 aims to bring, for academics as well as industrial practitioners, a set of articles discussing the recent patents on core topics of Smart Transportation based on multimedia data mining and serves. Topics of interest for articles 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

Keywords: Smart Transportation, multimedia data mining, Internet of Things, modeling techniques.
Timeline:

2. Completion for first-round: June 30, 2016
3. Revision due: July 15, 2016
4. Final decision notification: July 30, 2016
5. Publication materials due: September 15, 2016

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