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International Journal of Transportation

IJT

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Special Issue on Visualization in Transportation

Aims:

Today's visualization techniques can reshape the way transportation agencies and companies approach problem solving, make decisions, and communicate with others. The aim of this issue is to deliver the best practices and research from the 2017 International Transportation Visualization Symposium: Visualization in Action on July 27-28, 2017, in Washington D.C. (<http://www.cvent.com/d/bvqdfw>). The symposium is hosted by the standing committee on Visualization in Transportation, Transportation Research Board. The international symposium explores the opportunities and challenges of the mainstream use of visualization in the transportation field while presenting examples of how visualization is transforming transportation operations, planning and investments. Practitioners and researchers will be invited to submit abstracts, and selected abstracts will be invited to submit full papers. The papers will be reviewed by the standing committee and colleagues, who are experts in the field. All papers selected to appear in the Special Issue will carry a variety of state-of-the-practice applications and state-of-the-art technologies and theories that can contribute to the transportation community and enhance communication between professionals and the public.

Merits of the Special Issue:

Today's visualization techniques can reshape the way transportation agencies and companies approach problem solving, form hypotheses, make decisions, and communicate with others. This special issue will highlight the opportunities and challenges of visualization entering mainstream use in the transportation field while presenting examples of how visualization is transforming the way we work today. This special issue will accentuate the current best practices in the field of transportation visualization and the state-of-the-art applications. It also delves into the issues of scientific solutions and future opportunities to help improve the communication between transportation community and the public. The accepted papers in this special issue will be presented during the 8th International Visualization in Transportation Symposium in July 27-28, 2017.

Topics Covered:

We would like to invite papers that refer to both theoretical principles and practical experiences. Sample topics may include:

- Visualization in Decision Support
- Big Data Visualization
- Performance Management and MAP-21
- Asset Management
- Smart Cities
- Visualization for Transportation Planning
- Work Zone Management/Analytics
- Freight Movement/Operations
- Civil Integrated Management (CIM)
- Visualization in Traffic Safety
- Collaborative Visualization
- Transportation Operations
- LIDAR/Laser Scanning Visualization
- Augmented Reality
- 3D, Multi- Variate/High Dimensional Viz.
- Virtual Design & Construction (VDC)
- Connected Vehicle Data Visualization
- [Possible further topics or alternatives]
 - Exploration of Large Data Sets
 - Driver Assistance Displays
 - TransCAD and GIS Integration
 - Trip Log and Trajectory Visuals

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Important Dates:

Abstract Submission Deadline:	January 20, 2017
Abstract Acceptance Notification:	February 15, 2017
Full Paper Submission Deadline:	April 30, 2017
Acceptance Notification:	June 15, 2017
Final Paper Submission Deadline:	August 31, 2017
Special Issue Publishing Date (your choice):	The last day of December, 2017

Submission:

The papers will be subject to the usual peer review process of International Journal of Transportation. Criteria for acceptance include originality, contribution, scientific merit, accuracy and readability. The final paper format must follow the standards found in the International Journal of Transportation "Instructions for Authors" guide, available online at:

<http://www.sersc.org/journals/%5BSERSC%5D%20Author%20Guidelines.pdf>

Authors should submit the manuscript to the online submission system at:

<http://submission.sersc.org/IJT/>



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