

Special Issue Call for Papers

Special Issue on: Security in Surface Transportation Planning and Operations

International Journal of Transportation

(<http://www.sersc.org/journals/IJT/>)

Deadline for Full Paper Submissions: June 15, 2013

Paper 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/SI2>.

Expected Dates Schedule (Important Dates)

- Submission Deadline: June 15, 2013
- Notification of Acceptance: October 31, 2013
- Final Version Due: November 2013
- Special Issue Publishing Date: December 2013

Merits of Special Issue

This special issue will provide scientific information and build crucial knowledge on protecting critical mobility assets, enhancing traffic management capabilities, and improving transportation agencies emergency response and recovery capabilities. Advanced technologies applied to transportation focused on security and integrated solutions will be promoted. This special issue will cover a significant challenge in transportation literature and shape the future direction for quantitative research in transportation security.

Guest Editors

Dr. Matthew G. Karlaftis, mgk@central.ntua.gr
National Technical University of Athens

Dr. Eleni I. Vlahogianni, elenivl@central.ntua.gr
National Technical University of Athens

Aim and Scope

Existing surface transportation planning and operations reflect aspects of mobility, safety, congestion management, environmental considerations, growth and fiscal constraints. Security is only now becoming important in transportation processes and a major concern to governments and agencies worldwide. Surface transportation systems are in general open systems that promote accessibility and mobility of public and, thus, are particularly vulnerable to hazards (physical disasters, terrorist attacks etc). Surface transportation agencies start to recognize that, due to their broad responsibility and accountability to public, as well to a vast distributed personnel, heavy equipment, and communications infrastructure, they should allocate both human and infrastructure resources to provide actions and initiatives to protect lives and assets. System's preparedness, the ability to respond to extreme events in a timely manner and to maintain safe and secure level of operation by mitigating the negative effects of hazards are among the requirements of transportation agencies.

Security lies at the core of many important transportation areas of study. Researchers and practitioners are invited to submit original contributions related to security in surface transportation planning and operations. In this special issue comparative studies to support the advantages of proposed policies and methodologies over the existing literature and real world applications will be endorsed.

Topics

The suggested core topics involved in this special issue are:

- Major cities' transportation system adaptation to extreme events
- Critical infrastructure - travel demand analysis and forecasting
- Transit security systems
- Advanced and emerging technologies for transportation security
- Responsive traffic control and management systems
- Risk management
- Algorithms for hazard detection and transportation network optimization
- Emergency management and evacuation planning
- Security and infrastructure protection into the planning process
- Cost management and cost recovery tools for emergencies and evacuations
- Costing transportation asset protection
- Financing of transportation security
- Infrastructure type-specific detection of hazard in transportation systems
- Transportation vulnerabilities from information technology dependencies
- Intelligent informatics and technologies integration to transportation security
- Developing and maintaining the critical infrastructure protection database
- Social media in emergency management
- Public involvement related to disaster preparedness
- Security and emergency training in transportation operations
- Crowd preparedness and management
- Security policy and planning
- Infrastructure protection training standards and implementation strategies
- Modeling and simulation in planning and coordination of security operations
- Transportation assets inspection and security evaluation