The 16th International Multidisciplinary Conference

Reliability and Statistics in Transportation and Communication (RelStat-2016)

19-22 October 2016. Riga, Latvia

The goal of the RelStat-2016 conference is to provide an international forum for scientists and professional in academia, industry, and government to address recent research results and to present and discuss their ideas, theories, technologies, systems, tools, applications, work in progress and experiences on all theoretical and practical issues arising in transport, information and communication technologies.

TOPICS

RelStat-2016 has opened Call for Papers for both Special Session Proposals and Regular Full Paper Submissions. We look forward to innovative contributions in any of the following areas:

Smart Solutions in Transportation Systems
- Different modes of transport and their interactions
- Intelligent transport systems
- Design, operation, modelling and management of logistics systems and freight transport
- Transport policy, planning, design and management
- Environmental issues, road pricing, security and safety
- Transport systems operation
- Application and management of new technologies in transport
- Travel demand analysis, prediction and transport marketing
- Traveller information systems and services
- Ubiquitous transport technologies and ambient intelligence
- Pedestrian and crowd simulation and analysis
- Urban planning toward sustainable mobility
- Service oriented architectures for vehicle-to-vehicle and vehicle-to-infrastructure communications
- Assessment and evaluation of intelligent transportation technologies
- Human factors in intelligent vehicles
- Autonomous driving
- Artificial transportation systems and simulation
- Surveillance and monitoring systems for transportation and pedestrians
- Transport logistics and transportation management
- Smart cities and sustainable development of transport

Networking and Telecommunications
- Telecommunication and Networking
- Telecommunication Systems and Evaluation
- Multiple Criteria Decision Making in Information Technology
- Network and Decision Making
- Networks and Security
- Network and system monitoring and management
- Feature interaction detection and resolution
- Policy based monitoring and managements systems
- Traffic modeling and monitoring
- Traffic engineering and management
- Emerging networking, tracking and sensing technologies
- Internet of Things (IoT)

Reliability, Risk and Safety Applications
- Risk and hazard analysis
- System reliability analysis
- Monte carlo methods in system safety and reliability
- Dynamic reliability
- Bayesian methods
- Reliability and safety data collection and analysis
- Fault identification and diagnostics
- Maintenance modelling and optimisation
- Structural reliability and design codes
- Software security, reliability and safety
- Safety culture
- Human factors in reliability and security
- Accident and incident investigation
- Occupational safety
- Decision support systems and software tools for safety and reliability
- Safety management systems
- Integrated risk management and risk-informed decision making
- Stakeholder and public involvement in risk governance
- Risk and evidence based policy making
- Risk control in complex environments
- Risk perception and communication
- Major disasters & public health
- Crisis and emergency management
- Legislative dimensions of risk management
- Theory and applications of reliability and statistics
- Reliability and safety of transport systems
- Reliability and cyber security
- Rare events and risk management
- It in national and global security
- Formal aspects of security
- Systems and network security
- Security and cryptography, applied cryptography
- Security management, protection management, certification and accreditation
- Mathematics, Statistics, Modelling and its Applications
- Numerical analysis and scientific computing
- Statistics, probability theory and stochastic processes
- Operations research, mathematical programming and game theory
- Limit theory
- Mathematical finance and turbulence
- Descriptive Statistics
- Inferential Statistics / Statistical Inference
- Statistics in Society
- Applied and Interdisciplinary Statistics
- Computational and Graphical Statistics
- Spatial Statistics
- Data Management and Data Analysis
- Correlation Analysis
- Regression Analysis
- Continuous and discrete models
- Optimal models
- Complex system modeling
- Compact fuzzy models
- Real-time modelling
- Performance modeling
- Decision support systems
- Multiple criteria decision aiding
- Problem structuring methods
- Multicriteria optimization
• Optimization and efficiency
• Extreme optimization, combinatorial optimization, discrete optimization, fuzzy optimization
• Complexity analysis
• Global optimization
• Software development for modeling and optimization
• Multimedia and social computing
• Service oriented computing for systems & applications
• Smart environments and applications
• Industrial applications

Information Systems and Information Technologies
• Information technology and organizational behavior
• Agents, data mining and ontologies
• Big data and analytics
• Agent systems, intelligent computing and applications
• Cloud computing
• Information and network security
• Organizational information systems, information fusion, information management systems;
• Content consumer it applications for mobile platforms
• New ICT based applications in the digital society
• Management information systems
• Decision support systems
• Enterprise application integration
• Enterprise resource planning, business process change
• Design and development methodologies and frameworks
• Risk management in information systems design and development
• Modeling techniques, tools, methodologies, languages
• Enabled applications through virtualization
• Smallscale and largescale virtualization methodologies and techniques
• Virtual Reality and Augmented Reality. Tools and applications
• Management of virtualized systems. Platforms, tools, environments, and case studies
• Software requirements engineering
• Software design, frameworks, and architectures
• Formal methods for software development, verification and validation
• Neural networks and performance
• Empirical software evaluation metrics
• Software economics
• Real-time and embedded software
• Open source software development methodologies
• Software tools and deployment environments
• Software Intelligence
• Software Performance and Evaluation

Business and Economics Applications
• Software Performance and Evaluation
• Transport economics and transport policy
• Transportation innovation and cost management
• Sustainability and corporate responsibility
• Financial and business performance
• Business scenarios & strategic planning
• Consumer dynamics
• Economic indicators & forecasting
• Energy & sustainability
• Global value chains
• Growth, productivity & competitiveness
• Innovation
• Labor markets
• Marketing & brand strategy
• Procurement & supply chain strategy
• Urban, rural & regional economics
• Econometrics
• Accounting
• Behavioral, health & experimental economics

Mobile and Distance Education
• Educational technologies
• Distance learning and E-learning;

• Mobile learning, cognitive support for learning
• Impact of ICT on education and society
• Contextual and cultural challenges in user mobility
• Learning process of digital nationality
• E-learning and M-learning function in higher education

ORGANIZERS
The RelStat-2016 is Transport and Telecommunication Institute technically co-sponsored Conference organized in cooperation with:
• Latvian Academy of Science (Latvia)
• Telecommunication Association of Latvia (Latvia)
• Latvian Transport Development and Education Association (Latvia)
• Latvian Operations Research Society (Latvia)

The Conference is hosted by Transport and Telecommunication Institute.

IMPORTANT DATES
Special Session Proposals: 16.05.2016 30.05.2016 7.06.2016
Abstract submission: 16.05.2016 30.05.2016 7.06.2016
Notification of Abstract Acceptance: 30.05.2016 10.06.2016
Full Paper Submission: 10.07.2016
Notification of Paper Acceptance: 22.08.2016
Final Manuscript Submission: 04.09.2016
Early Registration and Payment: 28.08.2016
Late Registration and Payment: 02.10.2016

SUBMISSION INSTRUCTIONS
Full papers must be in English and must not exceed 12 pages, abstracts must not exceed 600 words. The templates for papers and submission instructions see on the conference website.

PUBLICATIONS
Submitted abstracts and papers will be reviewed. Accepted and invited papers of RelStat-2016 will be published in the book of abstract with Proceedings of the Conference on CD as appendix (both will have ISBN), selected papers will be published in “Procedia Engineering” (during 3–4 months after the Conference) - a journal published by Elsevier. The journal is indexed in Scopus, the largest abstract and citation database of peer-reviewed literature and others databases.

Authors of selected papers will be invited to submit an extended version of their papers for a special issues of the journal “Transport and Telecommunication” (ISSN 1407-6160) and will be included in SCOPUS, Elsevier Database, EBSCO, Versita, VINITI, The Summon, Transportation Research Board, JournalTOCs, INSPEC, TEMA (Technology and Management), etc.

INVITED SESSIONS (workshops)
Proposals for invited sessions (workshops) within the technical scope of the conference are accepted. Each proposal should describe the theme and scope of the proposed session. The proposal must contain the title and theme of the session and a list of paper titles, names and email addresses of the corresponding authors.
### REGISTRATION FEE

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<tr>
<th>Type of fee</th>
<th>Normal (Euro)</th>
<th>For Ms. and PhD st. (Euro)</th>
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<tr>
<td><strong>Full Conference Fee</strong></td>
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<td>Admission to all sessions, hard copy of Abstracts, coffee breaks, daily lunch, Welcome Party, Conference Dinner</td>
<td>220</td>
<td>130</td>
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<td><strong>Publication paper in Procedia Engineering (Elsevier)</strong></td>
<td>60</td>
<td>60</td>
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<tr>
<td><strong>Accompanying Persons (without presentation)</strong></td>
<td>80</td>
<td>70</td>
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### THE PROGRAMME COMMITTEE

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- As. Prof. Julia Stukalina, Transport and Telecommunication Institute, Latvia
- Dr. Ilze Sproge, Transport and Telecommunication Institute, Latvia
- Dr. Isghaly Ishmuhametov, Transport and Telecommunication Institute, Latvia

### THE LOCAL ORGANIZING COMMITTEE

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- Prof. Irina Yatskiv, Latvia – Co-Chairman
- Prof. Irina Kuzmina-Merlino – Co-Chairman
- Ms. Anna Agafonova, Latvia – Organization Manager
- Ms. Irina Laletina, Latvia – Programme Manager

### VENUE

Riga is the capital of the Republic of Latvia. Thanks to its geographical location, Riga has wonderful trade, cultural and tourist facilities. Whilst able to offer all the benefits of a modern city, Riga has preserved its historical charm. It's especially famous for its medieval part – Old Riga. Old Riga still preserves many mute witnesses of bygone times. Its old narrow streets, historical monuments, organ music at one of the oldest organ halls in Europe attract guests of our city. Old Riga is included into the UNESCO list of world cultural heritage.

### ACCOMMODATION

A wide range of hotels will be at the disposal of participants of the conference and accompanying persons (http://eng.meeting.lv/hotels/latvia_hotels.php).

### FURTHER INFORMATION

- **Contact:** Ms. Anna Agafonova – Organization Manager
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