

CALL FOR PAPERS

Fifth IEEE International Conference on Intelligence and Security Informatics (IEEE ISI-2007)





Key Theme: Port Security

Conference Web site: <http://dimacs.rutgers.edu/ISI2007>





May 23-24, 2007, New Brunswick, New Jersey

♦ Submission of full paper:	January 8, 2007	▼ Notification of acceptance:	February 20, 2007
♦ Submission of short paper:	January 8, 2007	▼ Camera-ready copy due:	March 3, 2007
♦ Submission of poster/demo abstract:	January 8, 2007		

Hosts

-  Rutgers, The State University of New Jersey
-  DIMACS-CAIT Laboratory for Port Security
-  Discrete Mathematics and Theoretical Computer Science (DIMACS)
-  Center for Interdisciplinary Studies in Information Privacy and Security

Major Sponsors

-  Institute of Electrical and Electronics Engineers
-  National Science Foundation (TBC)
-  Intelligence Technology Innovation Center (TBC)
-  Department of Homeland Security (TBC)

Informatics research has emerged as a key scientific discipline and applications domain supporting counterterrorism and homeland security's missions of anticipation, interdiction, prevention, preparedness and response to terrorist acts. ISI 2007 provides a forum for discussions among these vital communities: *academic researchers* (in information technologies, computer science, public policy, and social studies), *local, state, and federal law enforcement* and *intelligence experts*, and information technology *industry consultants* and *practitioners*. Security informatics is a rapidly growing multidisciplinary area that crosscuts numerous disciplines, including computer science, information technology, engineering, public policy, medicine (medical informatics), biology (bioinformatics), social and behavioral sciences, political science, and modeling and analysis. The combination of intelligence and security informatics strives to integrate computational social science, advanced information technologies and algorithms to support counterterrorism and homeland security policies, organizations and operations (both domestically and internationally). Because of the conference's location near major New York – New Jersey ports, one of its key themes is port security, where the term “port” is used here in its broad sense, namely, as a point of entry/exit for secure flows of people and cargo. Other themes cover the components of effective counterterrorism, dynamic data analysis, and critical-infrastructure protection technologies. This conference aims to foster the development and growth of a counterterrorism and homeland-security community by providing a forum and podium for diverse communities: academia, government (local, state, federal law enforcement, intelligence experts, etc.) and industry (consultants and practitioners etc.). We solicit contribution of long or short papers, and proposals for panel discussions on both the *science* and the *practice* of intelligence and security informatics. The conference proceedings will be published as an IEEE publication. Several satellite conferences will also be held before or after ISI-2007 (see <http://dimacs.rutgers.edu/ISI2007>)

Paper Submission/Areas of Interest

Submissions encompass practice, system, methodology, evaluation, technology, testbed, policy, and position papers. Research papers must be relevant to informatics and counterterrorism or homeland security. Practice papers must reflect real experience or real needs. Topics include but are not limited to:

I. Port Security and Infrastructure Protection	II. Preparedness for and Response to High-Consequence Events	III. Terrorism and Counter-Terrorism Related Intelligence and Informatics
<ul style="list-style-type: none"> ♦ Containerized cargo inspection technology ♦ Contraband detection and identification technologies ♦ Transportation and communication infrastructure ♦ Cyber infrastructure design and protection ♦ Intrusion detection protection ♦ Analysis and modeling of container and inspection operations ♦ Deception and intent detection in people flows 	<ul style="list-style-type: none"> ♦ Web-based intelligence monitoring and analysis ♦ Spatio-temporal data analysis/GIS for security informatics ♦ Bio-terrorism tracking, alerting, and analysis ♦ Bio-terrorism information infrastructure ♦ Communication and decision support for search and rescue ♦ Economic impacts of security events and alerts on global supply chains ♦ Emergency response and management ♦ Assisting citizens' responses to terrorism and catastrophic events ♦ Disaster prevention, detection, and management 	<ul style="list-style-type: none"> ♦ Intelligence-related data mining and knowledge discovery ♦ Counterterrorism-related analytical methodologies, software tools, visualization, knowledge portals and databases ♦ Agents and collaborative systems for intelligence sharing ♦ Applications of digital library technologies to intelligence processing, sharing, and analysis ♦ Terrorism forecasting and root-cause analysis ♦ Social network analysis (radicalization, recruitment, operations) ♦ Measuring counterterrorism campaign effectiveness ♦ Measuring terrorism's impact on society ♦ Privacy, security, and civil liberties issues ♦ Information sharing policy and governance

Long (6,000 words) and short (3,000) papers (in English) may be submitted electronically. Required Microsoft Word/LaTeX templates are at the conference Web site. Submission file formats are PDF and Microsoft Word. Authors wishing to present a poster and/or demo may submit a 500 word abstract, which will appear in the Proceedings.

Meet the Author Sessions. Authors of accepted papers are strongly encouraged to also discuss their findings in a “meet the author” poster/demo session. Several IEEE transactions and magazines show interest in publishing special issues on intelligence and security informatics. Authors of selected papers may be asked to submit extended versions of their work to these special issues.

Conference Committee (* invited, not yet confirmed)

Paul Kantor , Rutgers (Conference Co-Chair) Fred Roberts , Rutgers (Conference Co-Chair) Hsinchun Chen , U. Arizona (Conference Co-Chair)	Tayfur Altioek , Rutgers (Program Co-Chair) Benjamin Melamed , Rutgers (Program Co-Chair) Gheorghe Muresan , Rutgers (Program Co-Chair) Daniel Zeng , U. Arizona (Program Co-Chair)	Art Becker , ITIC (Government Liaison) Larry Brandt , NSF (Government Liaison) Stephen Dennis* , DHS (Government Liaison) Joshua Sinai , The Analysis Corporation (Industry Liaison)
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Paper Submission

Please submit your paper electronically to <http://www.softconf.com/start/ISI2007/>.

Formatting instructions may be found at <http://www.ieee.org/portal/pages/pubs/transactions/stylesheets.html>.

Sample files may be found at http://www.ieee.org/portal/cms_docs/pubs/confpubcenter/pdfs/samplems.pdf.