

CALL FOR PAPERS

IEEE International Conference on Intelligence and Security Informatics (IEEE ISI-2005)

Conference Web site: <http://ecom.arizona.edu/ISI>

May 19-20, 2005, Atlanta, Georgia

Important Dates

- ◆ Submissions due: January 30, 2005 Notification of acceptance: February 20, 2005
- ◆ Camera-ready copy due: February 28, 2005

Hosts

- Georgia Institute of Technology
- Rutgers, The State University of New Jersey
- The University of Arizona

Major Sponsors

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

Conference Scope

Informatics research for national/international and homeland security is growing rapidly, particularly the development of methods and tools that apply computer science and information technology to terrorism research, intelligence analysis, and security-related public policy. "Medical informatics" and "bioinformatics," are emerging as important sciences. Now the time has come to recognize the science of "intelligence and security informatics" -- the development and use of advanced information technologies, computer science, and algorithms for national/international and homeland security related applications, through an integrated technological, organizational, and policy based approach. This conference continues the series, originated in Tucson, AZ, offering a stimulating forum for discussions among previously disparate communities: academic researchers (in information technologies, computer science, public policy, and social and behavioral studies); local, state, and federal law enforcement and intelligence experts; and information technology industry consultants and practitioners. With sponsorship by the IEEE, the IEEE International Conference on Intelligence and Security Informatics (ISI-2005) will meet in Atlanta, Georgia, co-located with the 6th Annual National Conference on Digital Government Research (see <http://dgrc.org/dgo2005/>). This year we add Terrorism Informatics, a new stream of research, using the latest advances in social science methodologies, technologies and tools. ISI-2005 will also include new results from the NSF-sponsored Information Technology Research (ITR) projects on national and homeland security applications.

Paper Submission/Areas of Interest

Submissions in related research areas may include system, methodology, evaluation, testbed, intelligence policy, and position papers. Research should be relevant to both informatics and national/international and homeland security, and be relevant to the academic and public policy communities. Topics include but are not limited to:

| I. Information Sharing and Data Mining | II. Infrastructure Protection and Emergency Responses | III. Terrorism Informatics |
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| ◀ Intelligence-related knowledge discovery ▶ Criminal data mining and network analysis ▶ Criminal/ intelligence information sharing and visualization ▶ Web-based intelligence monitoring and analysis ▶ Spatio-temporal data analysis/GIS for crime analysis and security informatics ▶ Deception and intent detection ▶ Cybercrime detection and analysis ▶ Authorship analysis and identification ▶ Applications of digital library technologies in intelligence data processing, preservation, sharing, and analysis ▶ Agents and collaborative systems for intelligence sharing ▶ HCI and user interfaces of relevance to intelligence and security ▶ Information sharing policy and governance ▶ Privacy, security, and civil liberties issues | ▶ Cyberinfrastructure design and protection ▶ Intrusion detection ▶ Bio-terrorism tracking, alerting, and analysis ▶ Bio-terrorism information infrastructure ▶ Transportation and communication infrastructure protection ▶ Border/transportation safety ▶ Emergency response and management ▶ Disaster prevention, detection, and management ▶ Communication and decision support for search and rescue ▶ Assisting citizens' responses to terrorism and catastrophic events | ▶ Terrorism related analytical methodologies and software tools ▶ Terrorism knowledge portals and databases ▶ Terrorist incident chronology databases ▶ Terrorism root cause analysis ▶ Social network analysis (radicalization, recruitment, conducting operations), visualization, and simulation ▶ Forecasting terrorism ▶ Countering terrorism ▶ Measuring the impact of terrorism on society ▶ Measuring the effectiveness of counter-terrorism campaigns |

Long (6,000 words) and short (3,000 words) papers (in English) may be submitted electronically via the conference Web site after January 6, 2005. Submission file formats are PDF and Microsoft Word. ISI-2005 Proceedings will be published in the Springer Lecture Notes in Computer Science (LNCS) series. Required LNCS Microsoft Word/LaTeX templates can be found on the conference Web site. Authors who wish to only 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. Authors of selected papers may be asked to submit extended versions of their work to a special issue on Intelligence & Security Informatics: IEEE Transactions on Systems, Man, and Cybernetics; IEEE Intelligent Systems; and IEEE Transactions on Intelligent Transportation Systems.

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