

CALL FOR PAPERS

Special Topic Issue of *JASIST*: Intelligence and Security Informatics

A Special Topic Issue of the *Journal of the American Society for Information Science and Technology (JASIST)* is scheduled to come out in early 2004 on the topic of "Intelligence and Security Informatics." The guest editor for this special issue will be Hsin-chun Chen of the University of Arizona.

After the tragic events of September 11, 2001, academics have been called on for possible contributions to research relating to national (and possibly international) security. As one of the original founding mandates of the National Science Foundation, mid-to-long term national security research in the areas of information technologies, organizational studies, and security-related public policy is critically needed. Similar to medical and biological research that faces significant information overload and yet also tremendous opportunities for new innovation, law enforcement, criminal analysis, and intelligence communities are facing the same challenge. We believe, similar to "medical informatics" and "bioinformatics," there is a pressing need to develop the science of "intelligence and security informatics"—the study of the use and development of advanced information technologies, systems, algorithms and databases for national security related applications, through an integrated technological, organizational, and policy based approach. Many existing computer and information science techniques need to be re-examined and adapted for national security applications. New insights from this unique domain could result in significant breakthroughs in new data mining, visualization, knowledge management, and information security techniques and systems. For example, social network analysis technologies and methodologies could be adopted to uncover and understand Bin Laden's terrorist networks to assist the intelligence community in detecting future attacks. Visual data mining techniques such as association rules and multi-dimensional information visualization could be used to identify criminal relationships. Record linkage and string comparator algorithms could be useful for criminal identity deception detection.

Submissions on all research areas relating to intelligence and security informatics are welcome and may include system, evaluation, testbed, policy, and position papers. Research needs to demonstrate relevance to both informatics and national security.

Topics include but are not limited to:

- Intelligence and security related content creation, management, and access
- Intelligence and security related information interoperability and sharing
- Intelligence and security related methodologies and best practices
- Policy and organizational studies in intelligence and security
- Intelligence and security related knowledge discovery and knowledge management
- Criminal data mining, social network analysis, and event detection
- Multimedia intelligence and security information analysis
- Web-based intelligence monitoring and analysis
- Deception detection
- Intrusion detection and information awareness
- Cybercrime detection and analysis
- Agents and collaborative systems for intelligence sharing
- Crime and intelligence visualization
- Bio-terrorism tracking, alerting, and analysis
- Major (natural and man-made) disaster prevention, detection, and management

Inquiries can be made to the guest editor at hchen@bpa.arizona.edu. Manuscript submissions (four copies of full articles) should be addressed to:

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The deadline for accepting manuscripts for consideration for publication in this special issue is July 31, 2003. All manuscripts will be reviewed by a select panel of referees, and those accepted will be published in a special issue of *JASIST*. Original artwork and a signed copy of the copyright release form will be required for all accepted papers. A copy of the call for papers will be available on the World Wide Web as is further information about *JASIST*, at <http://www.asis.org/>.