

Call for Papers

Annals of Information Systems

Special Volume in Security Informatics

Guest Editors: Christopher C. Yang (The Chinese University of Hong Kong, Hong Kong), Michael Chau (The University of Hong Kong, Hong Kong), Jau-Hwang Wang (Central Police University, Taiwan), and Hsinchun Chen (University of Arizona, USA)

Introduction

Intelligence and Security Informatics (ISI) is the study of the development and use of advanced information systems and technologies for national, international, and societal security-related applications. ISI topics include ISI data management, data and text mining for ISI applications, terrorism informatics, deception and intent detection, terrorist and criminal social network analysis, public health and bio-security, crime analysis, cyber-infrastructure protection, transportation infrastructure security, policy studies and evaluation, information assurance, among others. Due to the advent of terrorism attacks in recent years, ISI has gained increasingly more interest and attention from academic researchers, law enforcement and intelligence experts, information technology consultant and practitioners. The first IEEE International Conference on ISI was held in 2003 and subsequent meetings were held annually. Starting from 2006, the Workshops on ISI (PAISI) were also held annually in Pacific Asia, with large numbers of contributors and participants from the region. A European Workshop on ISI will also be started in Denmark in 2008. Given the importance of ISI, we are editing a volume of *Annals of Information Systems* on this topic.

Annals of Information Systems is a journal series, consisting of volumes that address a specialized topic or a theme. AoIS publishes peer reviewed works in the analytical, technical as well as the organizational side of information systems. This journal series is part of a larger book series program run by Springer called Integrated Series in Information Systems, which comprises handbooks, monographs and other compiled collections of refereed research papers.

Scope

We solicit papers in four major subject areas in ISI, namely, (I) Information and Systems Security, (II) Information Sharing and Analysis in Security Informatics, (III) Infrastructure Protection and Emergency Responses, and (IV) National Security and Terrorism Informatics. Tentative subtopics under each topic are listed as follows:

I. Information and Systems Security

- Information assurance
- System security
- Internet security
- Corporate security policy and governance
- Identify fraud detection
- Biometrics and web signatures
- Social computing
- Secured access
- Privacy and security
- Cyber warfare
- Trust and security
- Civil liberties

II. Information Sharing and Analysis in Security Informatics

- Intelligence-related knowledge discovery
- Criminal data mining and network analysis
- Criminal/intelligence info. sharing and visualization
- Web-based intelligence monitoring and analysis
- Spatio-temporal data analysis/GIS for crime analysis and security informatics
- Deception and intent detection
- Cyber-crime detection and analysis
- Authorship analysis and identification
- Applications of digital library technologies in intelligence data processing, preservation, sharing, and analysis
- Agents/collaborative systems for intelligence sharing
- HCI and UI of relevance to intelligence and security
- Information sharing policy and governance
- Privacy, security, and civil liberties issues

III. Infrastructure Protection and Emergency Responses

- Public/animal health and bioterrorism info. infrastructure
- Transportation and communication infrastructure protection
- Cyber-infrastructure design and protection
- Intrusion detection
- Border/transportation safety
- Emergency response and management
- Disaster prevention, detection, & management
- Communication and decision support for search and rescue
- Assisting citizens' responses to terrorism and catastrophic events

IV. National Security and Terrorism Informatics

- 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

Submission

Authors are requested to present their manuscripts in a manner understandable to general professionals in English, following the Springer LNCS paper template. The instruction and template are available at http://www.se.cuhk.edu.hk/~yang/sv_contrib_11e.zip. Each manuscript should have 5000 to 8000 words and should follow a uniform structure as described below:

- Title: no longer than 10 words
- Affiliation: complete affiliation, position, postal, and email addresses
- Abstract: no more than 250 words
- Introduction: introduce the significance of the manuscript
- Literature Review of the field: a coherent and systematic review of related works in the topic area suitable for non-experts.
- Case studies/examples: One or two detailed case studies or examples of the presenting techniques, systems, implementations, and evaluation.
- Discussions and Conclusions
- References: 10 – 30 references
- Online resources (if available): a list of online resources that are relevant to the topic, e.g. Web sites, open source software, datasets, testbeds, demos, ontologies, benchmark results, golden standards, online publications, and reports, etc.

Papers should be submitted to yang@se.cuhk.edu.hk by email. Submission is due on **July 14, 2008**.