

BIOSECURE 2008

Biosurveillance and Biosecurity Workshop: Systems and Algorithms

Pre-Conference Workshop @ 2008 ISDS Seventh Annual Conference

Conference site: <http://ai.arizona.edu/BIO2008/>

December 2, 2008 Raleigh, North Carolina

Important Dates

- ◆ Paper submissions due: **August 20, 2008**
- ◆ Notification of acceptance: **September 10, 2008**
- ◆ Camera-ready copy due: **September 17, 2008**
- ◆ Workshop date: **December 2, 2008**

Workshop Scope

The 2008 Biosurveillance and Biosecurity Workshop (BioSecure 08) will be held December 2, 2008, as part of the pre-conference workshop series at the International Society for Disease Surveillance (ISDS) Seventh Annual Conference. The specific emphasis of this workshop is to encourage information and computer science (including informatics, statistics, modeling and decision sciences, data management, and IT) researchers to join the public health surveillance and biosecurity community to conduct high-impact, innovative research. Building on the success of the previous two meetings, BioSecure 08 aims to review and examine various real-time data sharing approaches for health surveillance and biosecurity from both technological and policy perspectives; and discuss and compare various systems approaches and algorithms of relevance to biosurveillance and biosecurity.

Workshop Background

This workshop series started in 2006 with an inaugural meeting in Tucson, Arizona, hosted by the University of Arizona. It attracted more than 35 infectious disease informatics (IDI) researchers and practitioners from a variety of academic institutions, industry, and public health agencies, to discuss selected topics directly relevant to data sharing and analysis for real-time animal and public health surveillance. The successful 2007 meeting was held in New Brunswick, New Jersey, co-located with the 2007 IEEE International Conference on Intelligence and Security Informatics. More than 65 researchers from a wide range of backgrounds including biosecurity, epidemiology, statistics, applied mathematics, information systems, computer science and machine learning/data mining, contributed formal papers to the workshop and actively participated in the meeting along with practitioners from both government agencies and industry. The proceedings were published in the prestigious Springer Lecture Notes in Computer Science (LNCS) series.

Workshop Hosts

- ◆ University of Arizona
- ◆ U.S. Centers for Disease Control and Prevention
- ◆ University of Washington

Government Liaisons

- ◆ Sylvia Spengler, U.S. National Science Foundation (tentative)
- ◆ Donald Noah, U.S. Department of Homeland Security
- ◆ Daniel M. Sosin, U.S. Ctrs. for Disease Control & Prevention

Workshop Sponsors

- ◆ U.S. National Science Foundation
- ◆ IEEE Systems, Man and Cybernetics Society (pending)

Workshop Co-Chairs

- ◆ Hsinchun Chen, U. of Arizona
- ◆ Henry Rolka, U.S. Ctrs. for Disease Control & Prevention
- ◆ Daniel Zeng, U. of Arizona & Chinese Academy of Sciences
- ◆ Bill Lober, U. of Washington

Paper Submission

Long (12 pages) and short (6 pages) papers in English may be submitted electronically via the workshop website after July 25, 2008. A formal publication with the Springer LNCS is planned. Required Springer LNCS Microsoft Word/LaTeX templates will be found on the workshop website. Papers must be submitted to EasyChair at <http://www.easychair.org/conferences?conf=biosecure2008> to be considered. Relevant sample topics include but are not limited to:

- ◆ Biosurveillance and biosecurity system architecture and interoperability
- ◆ Bio-event detection from distributed data sources
- ◆ Spatio-temporal data analysis/GIS for biosurveillance and biosecurity applications
- ◆ Social network analysis for biosecurity
- ◆ HCI and user interfaces of relevance to biosurveillance systems
- ◆ System evaluation, scalability, and sustainability
- ◆ Information sharing policy and governance
- ◆ Privacy and system security issues
- ◆ Case studies and technology adoption

Program Committee

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