

CALL FOR PAPERS

NSF BioSurveillance Workshop: Systems and Case Studies (BioSurveillance 2007, <http://ai.arizona.edu/BIO2007>)

May 22, 2007

New Brunswick, New Jersey, USA

To be co-located with the 2007 IEEE International Conference on Intelligence and Security Informatics (ISI 2007)

Important Dates

January 30, 2007 Paper submission deadline

February 20, 2007 Notification to authors

March 1, 2007 Camera ready copy due

May 22, 2007 Workshop day

Hosts

- ▶ University of Arizona
- ▶ University of California, Davis
- ▶ Rutgers University
- ▶ University of Washington

Major Sponsor

- ▶ National Science Foundation

Workshop Background

The 2007 NSF BioSurveillance Workshop (BioSurveillance 2007) will build on the success of the first NSF BioSurveillance Workshop, hosted by the University of Arizona's NSF BioPortal Center in March 2006, and will bring together infectious disease informatics [IDI] researchers and practitioners to discuss selected topics directly relevant to data sharing and analysis for real-time animal and public health surveillance. Researchers from a wide range of backgrounds including but not limited to epidemiology, statistics, applied mathematics, information systems, computer science and machine learning/data mining, are invited to submit papers to be considered for presentation at the conference and subsequent conference publication. BioSurveillance 2007 aims to achieve the following objectives: (a) review and examine various real-time data sharing approaches for animal and public health surveillance from both technological and policy perspectives; (b) identify key technical challenges facing syndromic surveillance for both animal and human diseases, and discuss and compare related systems approaches and algorithms; and (c) provide a forum to bring together IDI researchers and practitioners to identify future research opportunities. In addition to systems and technology research submissions, we strongly encourage case studies of successful local, state, and national biosurveillance system implementations. BioSurveillance 2007 papers are planned to be published in the Springer Lecture Notes in Computer Science (LNCS) series (an SCI indexed publication). Required LNCS Microsoft Word/LaTeX templates can be found on the Springer website. Long (12 pages) and short (6 pages) papers (in English) may be submitted electronically via the workshop web site after January 20, 2007.

Workshop Topic Coverage

- ▶ Data sources for biosurveillance, data quality and utility
- ▶ Data sharing protocols and implementation of secure health information exchange solutions
- ▶ Biosurveillance system architecture and interoperability
- ▶ Text processing for chief complaint/syndrome classification
- ▶ Bio-event detection from distributed data sources
- ▶ Outbreak detection and predictive modeling
- ▶ Spatio-temporal data analysis/GIS for biosurveillance applications
- ▶ Integrated genomic and epidemiological data analysis
- ▶ Disease-specific modeling and surveillance issues
- ▶ HCI and user interfaces of relevance to biosurveillance systems
- ▶ System evaluation, scalability, and sustainability
- ▶ Communication and decision support for public health, crisis planning, and disaster management
- ▶ Outcome measures for biosurveillance
- ▶ Funding and public/private partnerships
- ▶ Information sharing policy and governance
- ▶ Privacy and system security issues
- ▶ Case studies and technology adoption

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