

**Security and Survivability in Unbounded Networked Systems**  
**CALL FOR PAPERS**  
**Thirty-ninth Annual**  
**Hawai'i International Conference on System Sciences**  
**January 4 - 7, 2006**  
**Hyatt Regency, Kauai**

Additional detail may be found on HICSS primary web site: <http://www.hicss.hawaii.edu>  
Mirror sites: <http://hicss.sepa.tudelft.nl/> and <http://www.is.cityu.edu.hk/hicss/>

The physical and logical boundaries of networked computing systems are becoming increasingly difficult to specify. Many applications, ranging from simple distributed databases to grid-based medical image manipulations, are utilizing resources of unbounded environments. For other applications, like the control of critical infrastructures, the bounds of the traditional control infrastructure are fading due to a general desire to have ease of access over the Internet. However, this increases the chances of the applications to be affected by malicious act, e.g. hacking, virus or Trojans. It is thus more important than ever to design mechanisms into the infrastructure and the applications that ensure survivability of critical or essential functionalities.

This minitrack addresses issues of security and survivability in large, non-trivial, unbounded networked computer systems, with an emphasis on recovery and adaptation. It considers systems and networks, including dynamic paradigms based on migratory agents, ad-hoc networks or grid computing. Papers on resistance and recognition that address the need or capability for safety critical software systems to “fail-safe” and “fail-secure” are also desired. Submissions will be sought from researchers in the area of system survivability, software dependability, computer and network security, fault-tolerance and intrusion tolerance, and economic or statistical modeling of secure/survivable systems. Topics include, but are not limited to:

- Survivability in unbounded systems
- Software survivability and its measurement
- Safety critical failure modes
- Network or system intrusion tolerance
- Tolerating attacks in grid computing
- Modeling malicious behavior or attacks
- Survivability and security issues of mobile agent based systems
- Survivability and security issues of ad-hoc networks
- Mathematical models for verification of vulnerability to malicious acts
- Models for measurement, evaluation, or validation of survivability
- Software and hardware fault-tolerance
- Design for dependability and/or survivability
- PRA and hybrid fault models accounting for malicious acts and events

## MINITRACK CHAIRS

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## IMPORTANT DEADLINES

- Abstracts** - Authors may contact Minitrack Chairs for guidance and indication of appropriate content at anytime.
- June 15** - Authors submit full papers to the Peer Review System, following Author Instructions found on the HICSS web site ([www.hicss.hawaii.edu](http://www.hicss.hawaii.edu)). All papers will be submitted in double column publication format and limited to 10 pages including diagrams and references. Papers undergo a double-blind review.
- August 15** - Acceptance/Rejection notices are sent to Authors via the Peer Review System.
- September 15**  
**New Date!** - Authors submit Final Version of papers following submission instructions on the Peer Review System web site. At least one author of each paper must register by this date with specific plans to attend the conference to present the paper. Early Registration fee \$525 applies.
- October 2** - General Registration fee \$575 applies until December 10.
- December 10**
- Deadline to guarantee your hotel room reservation at conference rate.
  - Deadline to receive conference registration refund.
  - Late registration fee \$675 applies.

## INSTRUCTIONS FOR PAPER SUBMISSION

- HICSS papers must contain original material not previously published, nor currently submitted elsewhere.
- Consult the conference website ([www.hicss.hawaii.edu](http://www.hicss.hawaii.edu)) for the listing and description of Minitracks for HICSS-39.

- (optional) Contact the Minitrack Chair(s) by email for guidance and verification of appropriate content.
- Do not submit the manuscript to more than one Minitrack Chair. If unsure of which Minitrack is appropriate, submit abstract to the Track Chair for guidance.
- HICSS will conduct double-blind reviews of each submitted paper.
- Submit full paper according to detailed instructions found on the Peer Review System website.

## **HICSS-39 CONFERENCE TRACKS**

### **Collaboration Systems and Technology**

Co-chair: Robert O. Briggs [bbriggs@GroupSystems](mailto:bbriggs@GroupSystems);

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### **Knowledge Management Systems**

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HICSS conferences are devoted to advances in the information, computer, and system sciences, and encompass developments in both theory and practice. Papers may be theoretical, conceptual, tutorial or descriptive in nature. Submissions undergo a double-blind peer referee process and those selected for presentation will be published in the Conference Proceedings. Submissions must not have been previously published.

## **CONFERENCE ADMINISTRATION**

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