

Workshop on Information Assurance (WIA 2006)

In conjunction with the 25th IEEE International Performance Computing and Communications Conference (IPCCC)
<http://ipccc.org/>

Phoenix, Arizona, April 10-12, 2006

Scope: Information Assurance (IA) is defined as the operations undertaken to protect and defend information and information systems by ensuring their availability, integrity, authentication, confidentiality and non-repudiation. Availability implies that networks and systems must be survivable and fault tolerant – they should possess redundancies to operate under failures or security breaches. For example, networks should be designed with sufficient spare and working capacity, efficient traffic restoration protocols, alarms and network management. Security encompasses the other aspects of IA, namely integrity, access-control, authentication, confidentiality and non-repudiation as they apply to both networks and systems. The increasing reliance of business-to-business and business-to-consumer applications on networked information systems dramatically magnifies the consequence of damages resulting from even simple system faults and intrusions, making the task of assuring confidentiality, availability and integrity of information difficult. Although several piecemeal solutions address concerns related to the security and fault tolerance of various components of such networked information systems, there is a growing need to leverage the synergy between security and survivability to provide a higher level of information assurance in the face of faults and attacks. We seek papers that address theoretical, experimental, systems-related and work in-progress in the area of Information Assurance at the network and system levels. We expect to have three types of sessions - the first related to survivability and fault tolerance, the second related to security, and the third related to the interactions between security and survivability. Papers should describe original, previously unpublished work, not currently under review by another conference, workshop, or journal. Papers accepted for presentation will be published in the IPCCC conference proceedings. The workshop will also include invited papers. Topics of interest include, but are not limited to:



Authorization and access-control
Web services security Database
and system security
Risk analysis and security
management
Security verification/validation
Wireless LAN Security
Network Restoration techniques

Network Reliability/Availability
Digital Rights Management
DoS protection for the Internet
Cryptographic protocols and Key
management
Intrusion Detection Techniques
Ad hoc sensor network security
Models and architectures for

systems security and survivability
Security and survivability in optical
networks
E/M-commerce security and
survivability architectures
Public policy issues for security and
survivability

Instructions for authors: Papers reporting original and unpublished research results on the above and related topics are solicited. All submitted papers will be refereed for quality, originality and relevance by the Program Committee. The acceptance/rejection of the papers will be based on the review results. All questions should be addressed to the PC co-chairs. Authors are encouraged to submit their papers electronically. An electronic version (PDF format) of the paper should be submitted by November 22, 2005 to the workshop website. Manuscripts should be in English and must not exceed 8 pages (IEEE format) for regular papers and 4 pages (IEEE format) for short papers. Short papers will be included for presentation in a poster session. A cover page must include a title, descriptive keywords, all author's names, complete mailing addresses, telephone numbers, e-mail addresses and an abstract of up to 150 words. Both regular and short papers accepted for presentation will be published in the IPCCC conference proceedings. For any further information, please check the workshop web page at <http://www.sis.pitt.edu/~lersais/WIA2006/> or send e-mail to one of the program co-chairs. Inviting selected papers for an edited book is being planned

Keynote Speaker: Dr. Carl E. Landwehr, Senior Research Scientist, University of Maryland

General Chair

David Tipper (dtipper@mail.sis.pitt.edu)

Program Co-chairs:

James Joshi (jjoshi@mail.sis.pitt.edu)

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Important Dates:

Deadlines for Submissions: ~~Nov 22nd~~, Dec 6, 2005

Notification of Acceptance: January 10th, 2006

Camera-Ready Copy Received: January 26th, 2006