

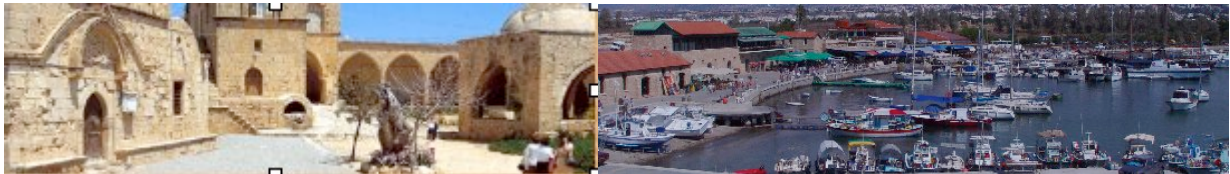
# CALL FOR PARTICIPATION

## Workshop on Security and High Performance Computing Systems

(<http://www.diiga.univpm.it/~spalazzi/nicosia/>)

As part of The 2008 International Conference High Performance Computing & Simulation (HPCS'08) and in conjunction with The 22nd European Conference on Modelling and Simulation (ECMS 2008)

**Nicosia, Cyprus**  
**June 3 - 6, 2008**



**(Submission Deadline: February 26, 2008)**

### **Brief Description:**

Providing high performance computing and security is a challenging task. Internet, operating systems and distributed environments currently suffer from poor security support and cannot resist common attacks. Adding security measures typically degrade performance. This workshop addresses relationships between security and high performance systems in three directions. First, it considers how to add security properties (authentication, confidentiality, integrity, non-repudiation, access control) to high performance computing systems. In this case, safety properties can also be addressed, such as availability and fault tolerance for high performance computing systems. Second, it covers how to use high performance computing systems to solve security problems. For instance, a grid computation can break an encryption code, or a cluster can support high performance intrusion detection. More generally, this topic addresses every efficient use of a high performance computing system to improve security. Third, it investigates the tradeoffs between maintaining high performance and achieving security in computing systems and solutions to balance the two objectives. In all these directions, various performance analyses or monitoring techniques can be conducted to show the efficiency of a security infrastructure.

The workshop seeks submissions from academia and industry presenting novel research on all

theoretical and practical aspects of computer and network security, as well as case studies and implementation experiences. Papers should have practical relevance to the construction, evaluation, application, or operation of secure systems.

**This workshop covers (but is not limited to) the following topics:**

- Access Control
- Accounting and Audit
- Anonymity
- Applied Cryptography
- Authentication
- Commercial and Industry Security
- Cryptographic Protocols
- Data and Application Security
- Data/System Integrity
- Database Security
- Digital Rights Management
- Formal Verification of Secure Systems
- Identity Management
- Inference/Controlled Disclosure
- Information Warfare
- Intellectual Property Protection
- Intrusion and Attack Detection
- Intrusion and Attack Response
- Key Management
- Privacy-Enhancing Technology
- Secure Networking
- Secure System Design
- Security Management
- Security for Mobile Code
- Security for Specific Domains (e.g., E-Government, E-Business, P2P)
- Security in IT Outsourcing
- Security in Mobile and Wireless Networks
- Security in Operating Systems
- Security Location Services
- Security of Grid and Cluster Architectures
- Smartcards
- Trust Management Policies
- Trust Models

**Paper Submissions:**

Submitted papers must not have been published or simultaneously submitted elsewhere. Submission should include a cover page with authors' names, affiliation addresses, fax numbers, phone numbers, and email addresses. Please, indicate clearly the corresponding author and include up to 6 keywords from the above list and an abstract of no more than 350 words. The full manuscript should be at most 7 pages using the two-column IEEE format. Additional pages will be charged additional fee. Please include page numbers on all submissions to make it easier for reviewers to provide helpful comments. All submissions should be appropriately anonymized (i.e., papers should not contain author names, affiliations, or obvious citations). Please, submit a PDF copy of your full manuscript using the conference web site submission link at: <http://www.diiga.univpm.it/~spalazzi/nicosia/submission/>.

Only PDF files will be accepted. Each paper will receive a minimum of three reviews. Authors of accepted papers must guarantee that their papers will be presented at the workshop. Accepted papers will be published by ECMS in the conference proceedings which will be available at the time of the meeting.

If you have any questions about paper submission or the workshop, please contact the organizers.

## **Important Dates:**

**Paper Submissions:** ----- **February 26, 2008**

**Acceptance Notification:** ----- **March 20, 2008**

**Camera Ready Papers and Registration Due:** ----- **April 17, 2008**

## **Workshop Organizers:**

### **Ratan Kumar Guha**

School of Electrical Engineering and Computer Science,  
University of Central Florida,  
4000 Central Florida Blvd.,  
Orlando, FL 32816, USA  
Phone: +1 (407) 823 2956  
Fax: +1 (407) 823 5419  
Email: [guha@eecs.ucf.edu](mailto:guha@eecs.ucf.edu)

### **Luca Spalazzi**

Dipartimento di Ingegneria Informatica, Gestionale e dell'Automazione  
Università Politecnica delle Marche  
Via Breccie Bianche  
I-60131 Ancona, ITALY, EU  
Phone: +39 071 2204829  
Fax: +39 071 2204474  
Email: [spalazzi@diiga.univpm.it](mailto:spalazzi@diiga.univpm.it)

## **Workshop Program Committee:**

Jemal H. Abawajy	Deakin University, Australia
Akshai Aggarwal	University of Windsor, Canada
Bharat Bhargava	Purdue University, U.S.A.
Mathieu Blanc	Commissariat à l'Energie Atomique (CEA), France
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Egidio Cardinale	Università Politecnica delle Marche, Italy
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Toshihiro Tabata  
Simone Tacconi  
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Soon Tee Teoh  
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Luis Javier Garcia Villalba  
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Okayama University, Japan  
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Universidad Complutense de Madrid, Spain  
INRIA, IRCICA, Villeneuve d'Ascq, France

If you have any questions about conference paper submission, please contact Conference Program Chair: **Waleed W. Smari**, Dept. of Electrical and Computer Engineering, University of Dayton, 300 College Park, Dayton, OH 45469-0226, USA, Voice: (937) 229-2795, Fax: (937) 229-4529, Email: [Waleed.Smari@notes.udayton.edu](mailto:Waleed.Smari@notes.udayton.edu) or consult the conference web site at <http://cisedu.us/cis/hpcs/08/>.

For information about the ECMS conference in general, please contact the General Conference Chairs: Loucas S. Louca (University of Cyprus, Nicosia, Cyprus, email: [lslouca@ucy.ac.cy](mailto:lslouca@ucy.ac.cy)) and Khalid Al-Begain (University of Glamorgan, Pontypridd, Wales, UK, email: [kbegain@glam.ac.uk](mailto:kbegain@glam.ac.uk)). The Multi Conference web site is at <http://www.scs-europe.net/conf/ecms2008/>.