

Workshop on Collaboration and Security (COLSEC 2010)

CALL FOR PAPERS

As part of
The 2010 International Symposium on Collaborative Technologies and Systems (CTS 2010)
<http://cisedu.us/cis/cts/10/main/callForPapers.jsp>

May 17 – 21, 2010
The Westin Lombard Yorktown Center
Chicago, Illinois, USA

**** Extended Submission Deadline: January 25, 2010 ****

SCOPE AND OBJECTIVES

Collaboration relies on distributed systems that combine different resources, often provisioned on-demand for the duration of the mission or project. Security services are an important component of the collaboration infrastructure that ensures normal uninterrupted reliable operation of the collaborative systems. The open Internet and networking environment, over which the modern collaborative systems operate, impose a number of common and specific security threats and attacks (spamming, worms, session hijacking, buffer overflow, denial of service, social engineering, etc.). Collaborative organizations require better security properties (strong authentication, efficient encryption, Mandatory Access Control, integrity, non-repudiation and availability). Nowadays, collaborative organizations use new technologies such as mobile devices, smartcards, wireless networks, high performance networks, cloud and grid computing, multi-agent systems. These environments introduce new needs, requirements and difficulties related to security. Hence, collaborative organizations and technologies face several challenges in the field of security.

This Workshop on Security and Collaboration, to be held as part of the 2010 International Symposium on Collaborative Technologies and Systems (CTS 2010), will focus on security issues related to collaborative systems with emphasis on distributed environments, Grid and cloud based resource virtualisation and on-demand provisioning, multi-agent systems, mobile and wireless cooperation. The aim is to have a dedicated workshop that fosters closer interactions among researchers and users communities, providing an excellent opportunity for them to meet and discuss their ideas. The workshop will address issues related to the security

infrastructure and services design, implementation and operation. It intends to address new security challenges and present new ideas and solutions addressing modern security requirements, specific methods of access control that should allow large scale cooperation, use of mobile technologies and smartcards, enable intrusion detection, system recovery and healing in the context of cooperative systems.

We invite original contributions from researchers in academia, research institutions and industry on these emerging and important areas of information technology.

Selected papers will be solicited from the best papers of COLSEC 2010 sessions for submitting an extended version of their papers to a special issue in a leading international journal.

The Workshop topics include (but are not limited to) the following:

- * Frameworks for Security in Collaborative Systems
- * Security of Grid and Cluster Architectures Supporting Cooperative Applications
- * Security Models for Emerging Cloud Computing
- * Access Control in Collaborative Environments
- * Role Based Access Control, Reputation, and Trust
- * Cross Domain Identity and User Attributes Management Systems
- * Security Context Management in Scientific Workflow Applications
- * Security Models and Infrastructure for Complex Resource Provisioning in Distributed Collaborative Systems, Supporting the Whole Life-cycle of the Provisioned Resources
- * Security Models for Coalition Networks Combining On-demand Provisioned Multilayer Infrastructure for Communications, Information Exchange, and Human Interaction
- * Security Standards and Security Education
- * Relation between Infrastructure Security, Information Security and Security Management
- * Policy Driven SLA Negotiation
- * Privacy Protection for Collaborative Systems
- * Encryption and Cryptography Systems Supporting Cooperative Systems, including Group Oriented and Identity Based Cryptography
- * Security for Specific Collaboration Domains (e.g., e-Government, e-Business, Public Services, P2P, e-Social Security, Medical Collaboration, etc.)
- * Virtual Organizations and Dynamic Security Associations
- * Trust and Reputation Management in Dynamic Environments
- * Web Services Security
- * Security in Collaborative Multi Agent Systems
- * Secure Collaborative Agents
- * Using Multi Agent Systems for Security
- * Middleware Security
- * Use of Smartcards in the Context of Collaboration
- * Security in Mobile and Wireless Networks for Collaboration

- * Usability, Social Engineering, and Security
- * Security in Social Networks
- * Trusted Operating Systems for Distributed Environments
- * Honeypots for Collaborative Systems
- * Intrusion and Attacks Detection in Collaborative Systems
- * Collaborative Security Monitoring Schemes and Systems
- * Security Metrics
- * Disclosure and Integrity Issues
- * Resistance to Denial of Service
- * Detection and Self-Recovery Schemes and Strategies Supporting Cooperation

PAPER SUBMISSION

You are invited to submit original and unpublished research works on above and other topics related to security in collaboration systems. 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 of topics and an abstract of no more than 400 words. The full manuscript should be at most 10 pages using the two-column IEEE format. Additional pages will be charged at additional fee. Please include page numbers on all submissions to make it easier for reviewers to provide helpful comments. Electronic submissions will be accepted only in PDF format uploaded at <http://www.univ-orleans.fr/lifo/Manifestations/COLSEC/>. For other electronic formats, please check with the organizers.

Only PDF files will be accepted, sent by email to the workshop organizers. Each paper will receive a minimum of three reviews. Papers will be selected based on their originality, relevance, technical clarity and presentation. Submission implies the willingness of at least one of the authors to register and present the paper, if accepted. Authors of accepted papers must guarantee that their papers will be registered and presented at the workshop.

Accepted papers will be published in the Symposium proceedings. Instructions for final manuscript format and requirements will be posted on the CTS 2010 Symposium web site later. It is our intent to have the proceedings formally published in hard and soft copies and be available at the time of the conference. The proceedings is projected to be included in the IEEE Digital Library and indexed accordingly.

IMPORTANT DATES

Paper Submissions: ----- **January 25, 2010**
Acceptance Notification: ----- **February 08, 2010**
Camera Ready Papers and Registration Due: ----- **March 01, 2010**

WORKSHOP ORGANIZER(S)

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International Program Committee:

All submitted papers will be reviewed by the workshop technical program committee members following similar criteria used in CTS 2010.

Program Committee Chair: Prof. Christian Toinard

LIFO, ENSI-Bourges, France

- Dr. Mathieu Blanc, CEA, France
- Pr. Julien Bourgeois, Université de Franche-Comté, France
- Dr. Jorge R. Cuellar, Siemens AG Corporate Technology, Germany
- Dr. Nora Cuppens, ENST Bretagne, France
- Dr. Michel Cukier, University of Maryland, USA
- Dr. Eric Dubois, Centre d'Innovation par les Technologies de l'Information, CRP Henri Tudor, Luxembourg
- Dr. Yuri Demchenko, University of Amsterdam, The Netherlands
- Dr. Jean-Bernard Fischer, Nagra, France
- Mr. Vincent Glaume, CEA, France
- Pr. Claude Godart, INRIA Lorraine, France
- Pr. Hervé Guyennet, LIFC - Université de Franche-Comté, France
- Dr. Vincent Louis, France Telecom R&D, France
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- Pr. Philippe Mathieu, University of Lille, France
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- Dr. Emmanuel Prouff, Oberthur Card Systems, France
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- Dr. Damien Sauveron, University of Limoges, France
- Dr. Luca Spalazzi, Universita' Politecnica delle Marche, Italy
- Pr. Pascal Urien, ENST, France

If you have any questions about paper submission or the workshop, please contact the workshop organizers at the above addresses or check the workshop web site at <http://www.univ-orleans.fr/lifo/Manifestations/COLSEC/>.

For information or questions about Symposium's paper submission, tutorials, posters, workshops, special sessions, exhibits, demos, panels and forums organization, doctoral consortium, and any other information about the conference location, registration, paper formatting, etc., please consult the Symposium's web site at URL: <http://cisedu.us/cis/cts/10/main/callForPapers.jsp> or contact one of the Symposium's Co-Chairs: **Bill McQuay** at William.McQuay@us.af.mil and **Waleed W. Smari** at Smari@arys.org.