

SecCo4

2nd International Workshop on Security Issues in Coordination Models, Languages, and Systems

August 30, 2004, London, United Kingdom
Affiliated to CONCUR 2004, Aug.30-Sept.4, 2004
Call for papers in PS format

PROGRAMME COMMITTEE

Farhad Arbab (CWI, The Netherlands)
Iliano Cervesato (ITT Industries, USA)
Rocco De Nicola (Università di Firenze, Italy)
Joshua Guttman (MITRE Corporation, USA)
Chris Hankin (Imperial College, UK)
Ronaldo Menezes (Florida Tech, USA)
Andrei Sabelfeld (Chalmers University, Sweden)
Jan Vitek (Purdue University, USA)

INVITED SPEAKERS

Roberto Gorrieri (Università di Bologna, Italy)
Chris Hankin (Imperial College, UK)

WORKSHOP PROGRAM

Below you can see the program of the workshop

WORKSHOP CO-CHAIRS

Riccardo Focardi
Dip. di Informatica - Università Ca' Foscari di Venezia
Gianluigi Zavattaro
Dip. di Scienze dell'Informazione - Università di Bologna

SUBMISSION GUIDELINES

The workshop proceedings will be published in the ENTCS series (Electronic Notes in Theoretical Computer Science). As done for the previous SecCo'03 workshop, we intend to publish a journal special issue inviting full versions of papers selected among those presented at the workshop.

IMPORTANT DATES

Abstract submission: June 1, 2004
Paper submission: June 6, 2004
Notification: July 12, 2004
Pre-Final version: July 22, 2004
Meeting date: August 30, 2004
Final version: September 26, 2004

UNDER THE AUSPICES OF

IFIP Working Group 1.7

SCOPE AND TOPICS

The 2nd International Workshop on Security Issues in Coordination Models, Languages, and Systems follows the success of SecCo'03 (held in conjunction with ICALP'03).

New networking technologies require the definition of models and languages adequate for the design and management of new classes of applications. Innovations are moving in two directions: on the one hand, the Internet which supports wide area applications, on the other hand, smaller networks of mobile and portable devices which support applications based on a dynamically reconfigurable communication structure. In both cases, the challenge is to develop applications while at design time there is no knowledge of the availability and/or location of the involved entities.

Coordination models, languages and middlewares, which advocate a distinct separation between the internal behaviour of the entities and their interaction, represent a promising approach. However, due to the openness of these systems, new critical aspects come into play, such as the need to deal with malicious components or with a hostile environment. Current research on network security issues (e.g. secrecy, authentication, etc.) usually focuses on opening cryptographic point-to-point tunnels. Therefore, the proposed solutions in this area are not always exploitable to support the end-to-end secure interaction between entities whose availability or location is not known beforehand.

Topics of interest include, but are not limited to:

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|------------------------|-------------------------------|
| ✦ authentication | ✦ coordination models |
| ✦ integrity | ✦ web service technology |
| ✦ privacy | ✦ mobile ad-hoc networks |
| ✦ confidentiality | ✦ agent-based infrastructures |
| ✦ access control | ✦ peer-to-peer systems |
| ✦ denial of service | ✦ global computing |
| ✦ service availability | ✦ context-aware computing |
| ✦ safety aspects | ✦ ubiquitous/pervasive comp. |
| ✦ fault tolerance | ✦ component-based systems |

WORKSHOP PROGRAM

9:00 - 10:30 Joint with FOCLASA	Invited presentation: "Continuous-Time Probabilistic KLAIM" Chris Hankin, Imperial College, UK "Data Privacy in Tuple Space Based Mobile Agent Systems" Lorenzo Bettini, Dip. Sistemi e Informatica, Univ. Firenze
10:30 - 11:00	Break
	"An RBAC-like architecture for Organisation and Access Control in an Agent Coordination Infrastructure" Andrea Omicini, DEIS Università degli Studi di Bologna Alessandro Ricci, DEIS Università degli Studi di Bologna Mirko Viroli, DEIS Università degli Studi di Bologna Short Paper

11:00 - 13:00	<i>"Flow-sensitive Leakage Analysis in Mobile Ambients"</i> Chiara Braghin, University of Venice Agostino Cortesi, University of Venice Short Paper <i>"Tags for Multi-Protocol Authentication"</i> Matteo Maffei, Ca' Foscari University (Venice)
13:00 - 14:30	Lunch
14:30 - 16:00 Joint with FOCLASA	Invited presentation: <i>"On the expressiveness of probabilistic and prioritized data-retrieval in Linda"</i> Roberto Gorrieri, Università di Bologna, Italy Foclasi paper: <i>"Prototype Platforms for Distributed Agreements"</i> Alberto Baragatti, Università di Pisa, Italy Roberto Bruni, Università di Pisa, Italy Hernán Melgratti, Università di Pisa, Italy Ugo Montanari, Università di Pisa, Italy Giorgio Spagnolo, Università di Pisa, Italy
16:00 - 16:30	Break
16:30 - 18:00	<i>"Analysing the vulnerability of protocols to produce known-pair and chosen-text attacks"</i> Steve Kremer, University of Birmingham Mark Ryan, University of Birmingham <i>"Team Automata for Security - A Survey -"</i> Maurice ter Beek, ISTI-CNR, Pisa, Italy Gabriele Lenzini, Department of Computer Science, University of Twente, The Netherlands Marinella Petrocchi, IIT-CNR, Pisa, Italy