

# Ph. D. in Computer Science (XVII Ciclo)

## 2nd Year Report: Performed Activities

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### Talks and Courses

- December 5, 2002. Venice.** Presentation at Department of Computer Science: *Secure Contexts for Confidential Data*, joint work with A. Bossi, C. Piazza, and S. Rossi.
- January 30, 2003. Venice.** Presentation at Department of Computer Science: *Synchronization Methods on Distributed Simulation*, final exam of the course *Simulazione* by S.Balsamo.
- February 20, 2003. Venice.** Presentation at Department of Computer Science: *Shape Analysis for Mobile Ambients* (by H.R. Nielson and F. Nielson), final exam of the course *Analisi e Verifica di Programmi* by A.Cortesi.
- April 6, 2003. Warsaw.** Presentation at Workshop on Issues in the Theory of Security (WITS'03) April 5 - 6, 2003: *Secure Contexts*, joint work with A. Bossi, C. Piazza, and S. Rossi.
- May 16, 2003. Milan.** Presentation at Department of Computer Science: *Control Methods for Resource Access*, final exam of the course *Access Control Models* (BISS02) by E.Bertino.
- June 5, 2003. Brighton.** Presentation at project meeting of MyThs June 5 - 6, 2003: *Secure Contexts for Confidential Data*.
- September 1-27, 2003. Pisa.** Attendance at First advance School on Mobile Computing, organized by Scuola Normale Superiore di Pisa and List Group.
- October 1, 2003. Brighton.** Beginning of my 6 months studentship at University of Sussex (UK) visiting V. Sassone.
- October 13, 2003. Bertinoro.** Presentation at Eighth Italian Conference on Theoretical Computer Science (ICTCS'03) 13-15 October 2003: *Information Flow Security and Recursive Systems*, joint work with A. Bossi, C. Piazza, and S. Rossi.

### Exams

I have attended and passed all the exams included in my study workplan.

- Fault-tolerance in Distributed Applications** (D. Dolev), BISS2002.  
Passed, June 6, 2002.

**Concurrency, Types and Categories** (U. Montanari), BISS2002.

Passed, August 31, 2002.

**Simulazione** (S. Balsamo, L. Donatiello), Venice.

Passed, January 30, 2002.

**Analisi e Verifica di Programmi** (A. Cortesi), Venice.

Passed, February 20, 2003.

**Access Control Models** (E. Bertino), BISS2002.

Passed May 16, 2003.

**First Advanced School on Mobile Computing**, Pisa.

The school was four weeks long and it offered two courses of 10 hours each per week. Every course provided a final assessment. I attended all the assessments.

**I.F. Akyildiz** (Georgia Institute of Technology, U.S.A.) A Journey Through Research Challenges for Next Generation Wireless Systems.

**F. Stajano** (University of Cambridge, U.K.) Security for Ubiquitous Computing.

**D. Sangiorgi** (Università di Bologna, Italy) Models and Calculi for Mobility.

**F.B. Schneider** (Cornell University, U.S.A.) Excursion To Two New Frontiers In Computer Security Research.

**G.P. Picco** (Politecnico di Milano, Italy) An Introduction to Logical and Physical Mobility.

**A. Murphy** (University of Rochester, U.S.A.) Software Development for Mobile Environments.

**M. Gerla** (UCLA, U.S.A.) Ad Hoc Wireless Networks: Protocols and Applications.

**P. Lee** (Carnegie Mellon University, U.S.A.) Certified Code for Mobile Computing.

## Publications

### Conference Proceedings

- A. Bossi, D. Macedonio, C. Piazza, and S. Rossi. *Secure Contexts (Extended Abstract)*. In Electronic Proceedings of the Workshop on Issue in the Theory of Security (WITS'03), April 2003.
- A. Bossi, D. Macedonio, C. Piazza, S. Rossi. *Secure Contexts for Confidential Data*. In Proc. of the 16th IEEE Computer Security Foundations Workshop (CSFW '03), September 2003.
- A. Bossi, D. Macedonio, C. Piazza, and S. Rossi. *Information Flow Security and Recursive Systems*. In Proc. of the Italian Conference on Theoretical Computer Science (ICTCS '03). October 2003.

### Technical Reports

- A. Bossi, D. Macedonio, C. Piazza, and S. Rossi. *Secure Contexts for Information Flow Security*. Technical Report CS-2002-18, Dipartimento di Informatica, Università Ca' Foscari di Venezia, December 2002. Extended version of the paper that has appeared in Proc. WITS'03.
- A. Bossi, D. Macedonio, C. Piazza, and S. Rossi. *P-BNDC and Replication*. Technical Report CS-2003-6, Dipartimento di Informatica, Università Ca' Foscari di Venezia, April 2003. Extended version of the paper that has appeared in Proc. ICTCS'03
- A. Bossi, D. Macedonio, C. Piazza, and S. Rossi. *Compositional Action Refinement and Information Flow Security*. Technical Report CS-2003-13, Dipartimento di Informatica, Università Ca' Foscari di Venezia, August 2003.