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# Daive Balzarotti

Curriculum Vitae

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## Contact Information

*Name*                Davide Balzarotti  
*Address*            Computer Science Department  
                          University of California Santa Barbara  
*Phone (office)*    (805) 893 4394  
*EMail*              balzarot@cs.ucsb.edu  
*Web*                 www.dabalza.net

## Current Position

*August 2006 - present*    Postdoc Researcher in Computer Security  
                                  University of California - Santa Barbara

## Education

- **Ph.D. degree in Computer Engineering**  
Politecnico di Milano, Italy - May 2006  
Dissertation Title: *“Testing Intrusion Detection Systems”*  
Advisor: Prof. Carlo Ghezzi
- **Master degree in Information Technology**  
CEFRIEL, Milano - July 2002
- **Laurea degree (equivalent to M.S.) in Computer Engineering**  
Politecnico di Milano, Italy - July 2002  
Thesis Title: *“Distributed Cooperation in Mobile Environments”*  
Grade: 100/100 cum Laude

## Publications

### Journal Papers

- [A.1] D. Balzarotti, C. Ghezzi, M. Monga  
“Supporting cooperative software processes in a decentralized and nomadic world”  
*IEEE Transactions on Systems, Man, and Cybernetics – Part A: Systems and Humans* 36(6)  
11/2006
- [A.2] D. Balzarotti, P. Costa, G.P. Picco  
“The LightTS Tuple Space Framework and Its Customization for Context-Aware Applications “  
(To appear) *Journal of Web Intelligence and Agent Systems*

### Conference and Workshop Papers

- [B.1] M. Cova, D. Balzarotti, V. Felmetzger, G. Vigna  
“Swaddler: An Approach for the Anomaly-based Detection of State Violations in Web Applications” *Recent Advance in Intrusion Detection (RAID)* 2007
- [B.2] D. Balzarotti, M. Monga, S. Sicari  
“Assessing the risk of using vulnerable components” *Quality of protection: security measurements and metrics*, Advances in Information Security 23 Springer New York,2006
- [B.3] G.P. Picco, D. Balzarotti, P. Costa  
“LighTS: A Lightweight, Customizable Tuple Space Supporting Context-Aware Applications”  
*Proceedings of the 20th Annual ACM Symposium on Applied Computing (SAC)* 2005)
- [B.4] D. Balzarotti, A. Castaldo D’Ursi, L. Cavallaro, M. Monga  
“Slicing AspectJ Woven Code” *Proceedings of Foundations Of Aspect-Oriented Languages (FOEL)* 2005)
- [B.5] G. Vigna, W. Robertson, and D. Balzarotti  
“Testing Network-based Intrusion Detection Signatures Using Mutant Exploits” *Proceedings of the ACM Conference on Computer and Communication Security (ACM CCS)* 2004)
- [B.6] D. Balzarotti, M. Monga  
“Using Program Slicing to Analyze Aspect Composition” *Proceedings of Foundations Of Aspect-Oriented Languages (FOEL)* 2004)
- [B.7] D. Balzarotti, C. Ghezzi, and M. Monga  
“Support Configuration Management for Virtual Workgroups in a Peer-to-Peer Setting” *Proceedings of international conference on Software Engineering and Knowledge Engineering (SEKE)* 2002)
- [B.8] D. Balzarotti, C. Ghezzi, and M. Monga  
“Freeing Cooperation from Servers Tyranny” *Web engineering and peer-to-peer computing*, LNCS 2376 Springer-Verlag

## Teaching Activity

- Teaching assistant for the following courses:  
“*Informatica A e B*”, Prof. Gianpaolo Cugola - Politecnico di Milano (2005-2006), *Informatica C*, Prof. Mattia Monga - Politecnico di Milano (2005-2006), *Informatica B*, Prof. Vincenzo Martena - Politecnico di Milano (2004-2005), *Informatica C*, Prof. Mattia Monga - Politecnico di Milano (2004-2005), *Ingegneria del Software*, Prof. Carlo Ghezzi - Politecnico di Milano (2002-2003), *Informatica C*, Prof. Mattia Monga - Politecnico di Milano (2002-2003), *Informatica 1*, Prof. Carlo Ghezzi - Politecnico di Milano (2002-2003)

## Invited Talks

- *Multi-Module Vulnerability Analysis of Web-based Applications*  
University of Milan, Italy, 19 December 2006

## Professional Activities and Service

### Conference Committee Activities

3rd International Workshop on Software Engineering for Secure Systems (SESS07)

### Reviewing Activities

Reviewer for:

Security and Privacy Magazine, 18th IEEE International Conference on Automated Software Engineering (ASE'03), IEEE Symposium on Security and Privacy (2005), 13th ACM Conference on Computer and Communications Security (CCS), 13th ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE-13), Springer-Verlag Monograph 2007 on "Testing and Analysis of Web Services"