

PERSONAL INFORMATION **Luca Montanari**

WORK EXPERIENCE

- 30/03/2009–30/09/2009** **Temporary research fellow**
Dipartimento di Informatica e Sistemistica "Antonio Ruberti" - Sapienza Università di Roma, Roma
Research in the field of smart home environments and distributed systems. Part of the UE project "SM4ALL" (<http://www.sm4all-project.eu/>).
- 01/02/2013–01/02/2015** **Postdoctoral Research Fellow**
Centro InfoSapienza - Sapienza Università di Roma, Roma
Research in the field of cyber security, big data analysis, failure prediction and fault detection, power consumption prediction in datacenters, opensource intelligence (OSINT).
- 01/02/2015–Present** **Postdoctoral Research Fellow**
Research Center of Cyber Intelligence and Information Security of Sapienza - University of Rome
Research in the field of cyber security, big data analysis, failure prediction and fault detection, power consumption prediction in datacenters, opensource intelligence (OSINT).

EDUCATION AND TRAINING

- 01/10/2009–27/03/2013** **Ph.D in Engineering in Computer Science** EQF level 8
Dipartimento di Informatica e Sistemistica "Antonio Ruberti", Roma
- 18/01/2012** **Engineering State Exam**
Sapienza - Università di Roma, Roma
- 01/10/2006–09/03/2009** **Master degree Computer Science Engineering** EQF level 7
Sapienza - Università di Roma, Roma
- 01/10/2002–09/07/2006** **Bachelor Degree Computer Science Engineering** EQF level 6
Sapienza - Università di Roma, Roma
- 01/09/1997–05/07/2002** **High School Degree** EQF level 4
Istituto Tecnico Industriale Statale "E. Majorana", Avezzano

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Research related activities

Workshops and conferences:

- WINE 2009 – Workshop on Internet & Network Economics - December 14th-18th, 2009, Sapienza University of Rome, Rome, Italy;
- SAFECOMP 2012; 31st International Conference on Computer Safety, Reliability and Security September 25th-28th, 2012, Magdeburg, Germany.

PhD Courses:

- PhD Course in Complex Adaptive Systems of Systems (CASoS) Modeling and Engineering, October 2010 Sapienza University of Rome, Rome, Italy;
- PhD Course on Byzantine Fault Tolerance, September 2011, Sapienza University of Rome, Rome, Italy;

PhD School:

- HTDC 2010 - Winter School: Hot Topics in Distributed Computing - March 7th-12th, 2010, La Plagne, France;

European Projects Participations:

- 2009 - SM4ALL - Smart Homes for All - Investigation of an innovative middleware platform for inter-working of smart embedded services in immersive and person-centric environments, through the use of composability and semantic techniques for dynamic service reconfiguration. <http://www.sm4all-project.eu>.
- 2010-2011 - COMIFIN - Communication Middleware for Monitoring Financial Critical Infrastructure. The research area is Critical Infrastructure Protection (CIP), focussing on the Critical Financial Infrastructure (CFI). <http://www.comifin.eu>.
- 2014 PANOPTESSEC consortium will deliver a beyond-state-of-the-art prototype of a cyber defence decision support system, demonstrating a risk based approach to automated cyber defence that accounts for the dynamic nature of information and communications technologies (ICT) and the constantly evolving capabilities of cyber attackers. <http://www.panoptesec.eu/>

Industrial Projects:

- 2010-2012 - CASPER: Online Black-box Anomaly Prediction for Air Traffic Control. Joint Work between CIS Sapienza: Cyber intelligence and information security center and Selex Sistemi Integrati.
Research Area: Critical Infrastructure Protection. <http://www.cis.uniroma1.it/projects/casper.php>
- 2013-2014: XASMOS, OSINT for critical infrastructures protection. Joint work between Selex-ES and CIS Sapienza Cyber intelligence and information security center.

Italian Projects:

- 2013-2014: TENACE prin project: The TENACE project will investigate the protection of national critical infrastructures from cyber threats following a collaborative approach whenever appropriate <http://www.dis.uniroma1.it/~tenace/>
- 2014: RoMA MIUR project: Resilience enhancement of a Metropolitan Area

Publications

Conferences and Journal:

R. Baldoni, A. Cerocchi, G. Lodi, L. Montanari, L. Querzoni

Designing Highly Available Repositories for Heterogeneous Sensor Data in Open Home Automation Systems

Proceedings of the 7th IFIP Workshop on Software Technologies for Future Embedded and Ubiquitous Systems (SEUS-09), 2009

R. Baldoni, G. Lodi, G. Mariotta, L. Montanari, M. Rizzuto

Online Black-box Failure Prediction for Mission Critical Distributed Systems

Proceedings of the 31st International Conference on Computer Safety, Reliability and Security (SAFECOMP-2012), 2012

R. Baldoni, S. Bonomi, G.A. Di Luna, L. Montanari, M. Sorella

Understanding (Mis) information Spreading for improving Corporate Network Trustworthiness

Proceedings of Dependable Computing, 165-172, 2013

Roberto Baldoni, Luisa Franchina, Luca Montanari:

Verso una struttura nazionale di condivisione ed analisi delle informazioni.

CyberWarfare Conference, Franco Angeli, 2014

R. Baldoni, M. Caruso, A. Cerocchi, C. Ciccotelli, L. Montanari, L. Nicoletti

Correlating power consumption and network traffic for improving data centers resiliency

arXiv preprint arXiv:1405.2992, 2014

R. Baldoni, A. Cerocchi, C. Ciccotelli, A. Donno, F. Lombardi, L. Montanari

Towards a Non-intrusive Recognition of Anomalous System Behavior in Data Centers

Computer Safety, Reliability, and Security. Springer International Publishing, 2014. 350-359.

R. Baldoni, L. Montanari, M. Rizzuto

On-line failure prediction in safety-critical systems

Future Generation Computer Systems 2015, Elsevier doi:10.1016/j.future.2014.11.015

L. Aniello, R. Baldoni, C. Ciccotelli, F. Lombardi, L. Montanari, L. Querzoni

NIRVANA: A Non-Intrusive Black-Box Monitoring Framework for Rack-level Fault Detection

The 21st IEEE Pacific Rim International Symposium on Dependable Computing (PRDC 2015), Zhangjiajie, China November 18-20, 2015. 2015.

Book Chapters:

L. Montanari, R. Baldoni, M. Rizzuto, F. Morciano, F. Matarese

How to manage failures in Air Traffic Control software systems

Chapter of the book: *Advances in Air Navigation Services*, edited by Tone Magister ISBN 978-953-51-0686-9, Hard cover, 174 pages, publisher: InTech, published: August 01, 2012.

R. Baldoni, V. Bortnikov, G. Chockler, E. Dekel, G. Laventman, G. Lodi, L. Montanari

CoMiFin Architecture and Semantic Rooms

Chapter of the book: “Collaborative Financial Infrastructure Protection: Tools, Abstractions and Middleware”, edited by R. Baldoni and G. Chockler ISBN 978-3642204197, publisher Springer, published January 10, 2012.

Baldoni, Roberto, and Rocco De Nicola Editors. Chapter of the book:

Il Futuro della Cyber Security in Italia. Un libro bianco per raccontare le principali sfide che il nostro Paese dovrà affrontare nei prossimi cinque anni. ISBN 9788894137309 (2015).

Books:

Roberto Baldoni and Luca Montanari Editors,

Italian Cyber Security Report 2013 - Critical Infrastructure and Other Sensitive Sectors Readiness

Casa Editrice Università La Sapienza - ISBN 978-88-98533-13-8

Roberto Baldoni and Luca Montanari Editors,

Italian Cyber Security Report 2014 - Awareness, Defense and Organization in the Public Sector

Available online: http://www.agid.gov.it/sites/default/files/presentazioni/2014CIS-Report_web.pdf

Roberto Baldoni and Luca Montanari Editors,

Italian Cyber Security Report 2015 - Un Framework Nazionale per la Cyber Security

ISBN: 9788894137316 (2015)

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003.