

## **Valentina Casola**

is currently an Assistant Professor at the Department of Computer Science and Systems of the University of Napoli Federico II, Faculty of Engineering, where she is carrying out her research activity since 2005.

She graduated cum laude in Electronic Engineering at the University of Napoli Federico II in 2001 and she received her Ph.D in Electronic and Computer Engineering from the Second University of Naples in 2004. In the years 2002-03 and 2003-04 she was awarded of an IBM PHD international Fellowship.

She has been teaching computer programming and computer security at the Faculty of Engineering of the University of Napoli, since 2005. Her research activities are both theoretical and experimental and are focused on the following areas:

- Security evaluation methodologies based on models and metrics to evaluate security in distributed systems;
- Security methodologies to design distributed and secure infrastructures;
- Design of infrastructures for the cooperation and integration of distributed and heterogeneous systems (Web Services, Wireless Sensor Networks, Grid, Cloud).

This research work is led in cooperation with other academic institutions and national enterprises such as IBM and ATOS Origin within national and international research projects. Valentina Casola has published a number of journal and conference papers in these and related areas.

She is member of Program Committees of international conferences and she serves as reviewer for journals and conferences.

### Relevant Publications:

1. Casola V., Preziosi R., Rak M., Troiano L., "A Reference Model For Security Level Evaluation: Policy and Fuzzy Technique", in JUCS - Journal of Universal Computer Science - edited by Ajith Abraham, Oklahoma State University, USA and L.C. Jain, University of South Australia, January 2005.
2. Casola V., Coppolino L., Rak M., "An Architectural Model for Trusted Domains in Web Services", in JIAS - Journal of Information Assurance and Security - Volume 1, Issue 2, June 2006.
3. Casola V., Mazzeo A., Mazzocca N., Rak M., "Security Design and Evaluation in a VoIP Secure Infrastructure: A Policy Based Methodology", in JIAS - Journal of Information Assurance and Security - Volume 1, Issue 3, 2006.
4. Casola V., Mazzeo A., Mazzocca N., Vittorini V., "A policy-based methodology for security evaluation: A Security Metric for Public Key Infrastructures", In the Journal of Computer Security, Volume 15 n.2, IosPress, 2007.
5. Casola V., Mancini E., Mazzocca N., Rak M, Villano U. "Self-Optimization of Secure Web Services", in the Special Issue on Secure Multi-Mode Systems, Computer Communications (31), Elsevier, 2008.
6. Casola V., Luna J., Mazzeo A, Medina M., Serna J, Rak M "An Interoperability System for Authentication and Authorization in VANETs", in the International Journal of Autonomous and Adaptive Communications Systems (IJAACS) Special Issue on: "Security, Trust, and Privacy in DTN and Vehicular Communications", Volume 3 n.2, febbraio 2010.