



Dr. Nabil El Ioini

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NATIONALITY Italian

ADDRESS Free University of Bolzano/Bozen, Faculty of Computer Science, Piazza Domenicani 3, 39100, Italy

RESEARCH INTERESTS Software security, open source software security, security certifications, Cloud testing, web services security.

EDUCATION Free University of Bolzano/Bozen, Bolzano, Italy

- PhD., Computer Science , May 2017
 - Research Topic: Cloud Quality Assurance, Cloud Certification, Cloud Adaptation
 - Supervisors: Prof. Claus Pahl, Prof. Ernesto Damiani and Prof. Claudio Ardagna
 - Area of Study: Cloud certifications
- M.Sc., Computer Science , March 2008
 - Thesis Topic: Techniques and tools for security certification of Open Source software
 - Advisor: Prof. Ernesto Damiani
 - Area of Study: Software security & Security certifications
- B.S., Applied Computer Science, October 2006
 - Thesis Topic: Virtual communities and mobile devices
 - Advisor: Prof. Andrea Molinari

PROFESSIONAL EXPERIENCE Free University of Bolzano/Bozen, Italy

- Researcher with a fixed term contract **June 2013 - May 2017**
- Assistant Professor **December 2009 - June 2013**
- Research Assistant **January 2009 - December 2009**
- Undergraduate Researcher **2008**

TEACHING ACTIVITIES Free University of Bolzano/Bozen, Bolzano, Italy

University courses

- Mobile System Engineering (A.Y. 14/15, 15/16, 16/17)
- Technology Assessment (A.Y. 13/14)
- Internet and Mobile Services (A.Y. 14/15, 15/16)

Teaching Assistant

- Software Engineering (A.Y. 16/17)
- Empirical Software Engineering Research (A.Y. 16/17)
- Mobile System Engineering (A.Y. 14/15, 15/16, 16/17)
- Internet and Mobile Services (A.Y. 13/14)
- Advanced Internet Technologies (A.Y. 12/13, 13/14)
- Operating systems (A.Y. 11/12)

Other teaching activities

- Academic advisor for Software engineering and European Master in Software engineering students (A.Y. 13/14)
- Teaching Computational thinking to high school and middle school students as part of TACITuS project (2014 - 2015)
- One week summer school for high school students on Mobile development (MobiDev) (2012, 2014, 2015)

PROFESSIONAL
ACTIVITIES

- Member of the (AFIN 2017) Technical Program Committee: The Ninth International Conference on Advances in Future Internet, 2017
- Reviewer: IEEE Global Communications Conference (GLOBECOM) 2016/2017
- Reviewer: 21st Australasian Conference on Information Security and Privacy 2016
- Reviewer: Mobile Information Systems Journal
- Reviewer: Fourth International Symposium on Security in Computing and Communications (SSCC'16)
- Reviewer: IEEE Transactions on Services Computing (TSC)
- Reviewer: International Conference on Information and Communication Technology Research (ICTRC2015)
- Web Chair of the 2nd International Conference on Performance Systems and Methodologies in Software Engineering for the Military (SEDA 2013)
- Proceeding Chair of the 9th International Conference on Open Source Systems (OSS2013)

PROJECTS

- Green4drones (Jan. 2016 - Dec 2017). Green software for drone energy consumption optimization.
- ctALL (Jun. 2016 - Dec 2017). Computational Thinking Assisted Language Learning.
- ESQUA (Jun. 2014 - May 2015). Embedded Software QUALity.
- FUN-VM (Jun 2014 - May 2015). FUnctional and Non-functional properties of Virtual Machines.
- QUAM (Jul. 2013 - Jun 2014). QUALity of Mobile apps.
- OSP (Jun. 2010 - Dec. 2011). Open Source processes for SMEs.
- SDOS (Jul. 2010 - Dec. 2011). Software Development support with Open Source tools.
- WSC (Jul. 2010 - Dec. 2011). Web Service Certification.
- SPISME (Oct. 2009 - Mar. 2011). Software Process Improvement for SMEs.
- NEXOF-RA (November 2009 - July 2010). A European project that aims at delivering a reference architecture for the NESSI Open Service Framework (NEXOF). My work focused on developing a monitoring framework for SOA based systems.

CONFERENCE
PUBLICATIONS

- Djurdjevic-Pahl, A., Pahl, C., Fronza, I., and El Ioini, N. "A Pathway into Computational Thinking in Primary Schools". In International Symposium on Emerging Technologies for Education (pp. 165-175). Springer, Cham, 2017
- C. A. Ardagna, R. Asal, E. Damiani, N. El Ioini, C. Pahl and T. Dimitrakos, "A Certification Technique for Cloud Security Adaptation". 2016 IEEE International Conference on Services Computing (SCC), San Francisco, CA, 2016, pp. 324-331.
- Arabnejad, H., Jamshidi, P., Estrada, G., El Ioini, N., and Pahl, C. "An Auto-Scaling Cloud Controller Using Fuzzy Q-Learning-Implementation in OpenStack". In European Conference on Service-Oriented and Cloud Computing (pp. 152-167). Springer International Publishing, 2016.
- Corral, L., Fronza, I., El Ioini, N., Janes, A., and Plant, P. "Preserving energy resources using an Android kernel extension: a case study". In Proceedings of the International Workshop on Mobile Software Engineering and Systems (pp. 23-24). ACM, May 2016
- Fronza, I., El Ioini, N., and Corral, L. "Blending mobile programming and liberal education in a social-economic high school". In Proceedings of the International Workshop on Mobile Software Engineering and Systems (pp. 123-126). ACM, May 2016
- Corral, L., Fronza, I., El Ioini, N., Janes, A., and Plant, P. "An Android Kernel Extension to Save Energy Resources Without Impacting User Experience". In International Conference on Mobile Web and Information Systems (pp. 3-17). Springer International Publishing, August 2016
- Fronza, I., El Ioini, N., and Corral, L. "Computational Thinking Through Mobile Programming". In International Conference on Mobile Web and Information Systems (pp. 67-80). Springer International Publishing, August 2016
- Corral, L., Fronza, I., El Ioini, N., and Ibershimi, A. "A Measurement Tool to Track Drones Battery Consumption During Flights". In International Conference on Mobile Web and Information Systems (pp. 334-344). Springer International Publishing, August 2016
- I. Fronza, N. El Ioini, L. Corral, and A. Ibershimi, "Towards Optimization of Energy Consumption of Drones with Software-Based Flight Analysis", The 28th International Conference on Software Engineering and Knowledge Engineering, Redwood City, San Francisco Bay, USA, 2016
- I. Fronza, N. El Ioini, and L. Corral, "Teaching Software Design Engineering Across the K-12 Curriculum: Using Visual Thinking and Computational Thinking", In Proceedings of the 17th Annual Conference on Information Technology Education (SIGITE '16). ACM, New York, NY, USA, 97-101, 2016
- N. El Ioini: "Specifications for Web Services Testing: A Systematic Review", SERVICES 2015, New York City, NY, USA, 152-159, 2015
- I. Fronza, N. El Ioini, and L. Corral: "Students Want to Create Apps: Leveraging Computational Thinking to Teach Mobile Software Development". Proceedings of the 16th Annual Conference on Information Technology Education (SIGITE 2015), Chicago, Illinois, September 30 - October 3, pp. 21-26, 2015
- L. Corral, I. Fronza, and N. El Ioini: "The Future of Energy-Aware Software: The Case of Drones". Cutter IT Journal, vol. 28, no. 8, pp. 19-23. 2015
- M. Anisetti, C. A. Ardagna, E. Damiani, N. El Ioini: "Trustworthy Cloud Certification: A Model-Based Approach". SIMPDA (Revised Selected Papers) 2014: 107-122
- I. Fronza, N. El Ioini, A. Janes, A. Sillitti, G. Succi, and L.R. Corral Velazquez: "Se dovessi dare un voto a questo laboratorio, darei nove Introduzione del Computational Thinking nella scuola secondaria di primo grado: risultati dell'esperienza", Mondo Digitale, vol. 13, no. 51, pp. 757-765, June 2014
- N. El Ioini, A. Garibbo, A. Sillitti, G. Succi: "An Open Source Monitoring Framework for Enterprise SOA". OSS 2013

- N. El Ioini, A. Sillitti, G. Succi: "Using Rules for Web Service Client Side Testing". SERVICES 2013
- E. Petrinja, G. Succi, N. El Ioini, A. Sillitti: "Open Source Software: Quality Verification - 9th IFIP WG 2.13 International Conference", OSS 2013, Koper-Capodistria, Slovenia, June 25-28, 2013. Proceedings. IFIP Advances in Information and Communication Technology 404, Springer 2013
- Nabil El Ioini: "Web Services Open Test Suites". IEEE SERVICES 2011: 77-80. - implementation of a tool for testing web services.
- N. El Ioini, A. Sillitti: "Open Web Services Testing". IEEE SERVICES 2011: 130-136. - implementation and testing of a tool for testing web services and its experiments
- E. Damiani, N. El Ioini, A. Sillitti, G. Succi: "WS-Certificate". IEEE International Workshop on Web Services Security Management 2009. - proposal of a certification framework for web services.
- C. A. Ardagna, M. Banzi, E. Damiani, N. El Ioini, F. Frati: "Assurance Evaluation for OSS Adoption in a Telco Context". Fifth International Conference on Open Source Systems 2009. - Security certification of open source software in teleco context.
- C. A. Ardagna, E. Damiani, N. El Ioini, F. Frati, P. Giovannini and R. Tchokpon. "Mapping Linux Security Targets to Existing Test Suites", Fourth International Conference on Open Source Systems.

BOOKS

Ernesto Damiani, Ardagna, Claudio Agostino, El Ioini Nabil, "Open Source Systems Security Certification".

SPECIAL SCHOOLS

ATTENDED

- CASE Summer School 2012 on Practical Experimentation in Software Engineering, Bolzano, Italy. July 11-15, 2011.
- The Service and Software Architectures, Infrastructures and Engineering (SSAIE) summer school, Heraklion, Greece. June 28- July 02, 2010.
- International summer school on Software engineering, Salerno, Italy. July 06-09, 2010.
- CASE Summer School on Empirical Analysis of Software Processes and Products, Bolzano, Italy. July 19-23, 2010.
- item International summer school on Software engineering, Salerno, Italy. September 14-18, 2009.
- Laser summer school on software engineering (Software Testing: The practice And The science), Elba, Italy. September 6-12, 2009.
- CASE summer school on Applied Software engineering, Bolzano, Italy. July 6-10, 2009.
- The Service and Software Architectures, Infrastructures and Engineering (SSAIE) summer school, Heraklion, Greece. June 15-20, 2009.