

Alessandra Gorla

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Current Position

Ph.D. in Informatics
University of Lugano
Research studies on a technique that allows to automatically avoid failure occurrences in software systems by executing sequences of actions that are equivalent, in the final intent, to the failing one, and might serve as workarounds.

research advisor: prof. Mauro Pezzè
October 2006 - Present

Education

Master degree in Informatics (*Summa Cum Laude*)
Advisors: prof. Mauro Pezzè, Giovanni Denaro
Definition of a technique, based on data flow analysis, to test the integration of Java classes.

October 2003 - April 2006
Università degli Studi di Milano-Bicocca

Bachelor degree in Informatics
Advisors: prof. Mauro Pezzè, Vincenzo Martena
Implementation of a tool that performs data flow analysis on Java code to derive definition-use chains for field variables.

October 2000 - December 2003
Università degli Studi di Milano-Bicocca

Teaching Experience

Teaching Assistant: University of Lugano, Fall 08/09.
Software Atelier I (Bachelor course) Instructor: Prof. Mauro Pezzè

Teaching Assistant: University of Lugano, Spring 07/08.
Software Quality (Master course) Instructor: Prof. Mauro Pezzè

Teaching Assistant: University of Lugano, Spring 07/08
Software Quality LAB (Master course) Instructor: Prof. Mauro Pezzè

Teaching Assistant: University of Lugano, Spring 06/07
Software Design (Bachelor course) Instructor: Prof. Walter Binder

Teaching Assistant: University of Lugano, Spring 06/07
Software Atelier II (Bachelor course) Instructor: Prof. Alex Repenning

Teaching Assistant: University of Lugano, Fall 06/07
Technology Lab III: Testing (Bachelor course) Instructor: Prof. Mauro Pezzè

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Publications

Antonio Carzaniga, Alessandra Gorla and Mauro Pezzè "*Healing Web Applications through Automatic Workarounds*" in International Journal on Software Tools for Technology Transfer vol. 10, no. 6, pp. 493–502. December 2008.

Antonio Carzaniga, Alessandra Gorla and Mauro Pezzè "*Self-Healing by Means of Automatic Workarounds*" in SEAMS '08: Proceedings of the 2008 International Workshop on Software Engineering for Adaptive and Self-Managing Systems, pp. 17–24. Leipzig (Germany) 12-13 May 2008.

Giovanni Denaro, Alessandra Gorla and Mauro Pezzè "*Contextual Integration Testing of Classes*" in FASE '08: Proceedings of the 11th International Conference on Fundamental Approaches to Software Engineering, pp. 246–260. Budapest (Hungary) 29 March - 6 April 2008.

Alessandra Gorla "*Towards Design for Self-Healing*" in SOQUA '07: Proceedings of the Fourth International Workshop on Software Quality Assurance, pp. 86–89. Dubrovnik (Croatia) 3-4 September 2007.

Giovanni Denaro, Alessandra Gorla and Mauro Pezzè "*An Empirical Evaluation of Data Flow Testing of Java Classes*" Technical Report 2007/03, University of Lugano, Lugano Switzerland. January 2007.

To appear

Alessandra Gorla "*Automatic Workarounds as Failure Recoveries*" in FSE '08 Doctoral Symposium: Proceedings of the 16th International Symposium on the Foundations of Software Engineering. Atlanta (USA) 09-14 November 2008.

Public Talks

"*Automatic Workarounds as Failure Recoveries*" in FSE Doctoral Symposium '08, November 11, 2008.

"*Self-Healing by Means of Automatic Workarounds*" in SEAMS '08, May 12, 2008.

"*Contextual Integration Testing of Classes*" in FASE '08, April 1, 2008.

"*Towards Design for Self-Healing*" in SoQUA '07, September 4, 2007.

Projects

SNF project *PerSeoS: Pervasive Self-Adaptive Software Systems*, University of Lugano, 2007-2009

This project targets complex software systems, i.e., systems composed of many heterogeneous devices, which communicate each other through distributed and wireless interfaces, and tackles the problem of coordinating heterogeneous self-adaptive mechanisms to solve conflicts and avoid chaos.

Grants and Awards

Nov. 2008 Best student poster award, 16th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2008).

Sept. 2008 Student travel grant for attending the 16th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2008), granted by ACM SIGSOFT

Service

Webmaster, University of Lugano, 2006-2007