

Francesco Gallo

· SOFTWARE ENGINEER ·

Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica
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“Dogmas are toys that amuse only children incapable of reasoning.”

Research interests

- Self-Adaptive Systems
- Internet(Web) of Things
- System Biology
- Service Oriented Architecture
- Blockchain

Current Positions

April 2017 **Post Doc researcher**, GAUSS - Controllo di Sistemi Non Pianificati e Adattivi project - PRIN MIUR '15

L'Aquila

Education

Facoltà di Scienze MM. FF. NN (Faculty of Sciences) - University of L'Aquila

L'Aquila, Italy

PHD IN COMPUTER SCIENCE

Oct. 2009 - April 2014

- *Phd Thesis*: Proteus: A framework to specify and to implement reconfiguration plan
- *Supervisor*: dr. Antiniscia Di Marco

Facoltà di Scienze MM. FF. NN (Faculty of Sciences) - University of L'Aquila

L'Aquila, Italy

MASTER DEGREE IN COMPUTER SCIENCE

Nov. 1999 - March 2009

- *Thesis*: Proteus: A framework to specify and to implement reconfiguration plan
- *Supervisor*: dr. Antiniscia Di Marco

Istituto Tecnico Industriale Statale "G. Marconi", Campobasso

L'Aquila, Italy

MATURITÀ TECNICA (HIGH-SCHOOL DEGREE) - 52/60

Sep. 1991 - July 1996

Skills

Programming Python, JAVA, C, LaTeX, Scala, Node.JS,
Web Django with Python, Express with Node.JS, HTML5
Languages Italian, English

Research Experiences

Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica - DISIM

L'Aquila, Italy

RESEARCHER FOR "IDEAS - PROGETTAZIONE E EVOLUZIONE INTEGRATA DI SISTEMI ADATTIVI"- PRIN MIUR '12

Apr. 2015 - Exp. March 2017

- Researched means to project and develop adaptive systems.

Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica - DISIM

L'Aquila, Italy

SCHOLARSHIP FOR "IMPLEMENTAZIONE DI UN FRAMEWORK PER LA RICONFIGURAZIONE DI SISTEMI SOFTWARE

A RUN-TIME"

March 2014 - Exp. Febr. 2015

- Researched means to project and develop self-adaptive systems.

Dipartimento di Ingegneria e Scienze dell'Informazione e Matematica - DISIM

L'Aquila, Italy

SCHOLARSHIP FOR "LINGUAGGI PER LA RICONFIGURAZIONE DI SISTEMI SOFTWARE A RUN-TIME"

March 2014 - Exp. Febr. 2015

- Researched means to project and develop self-adaptive systems.

Computer Communications Department, Middlesex University

London, UK

DOCTORAL GUEST STUDENT - COLLABORATION WITH DR. LEONARDO MOSTARDA

Dec. 10, 2012 - Exp. Dec. 21, 2012

- Self-Adaptive systems based on wireless sensor network

School of Engineering and Information Sciences, Middlesex University

London, UK

DOCTORAL GUEST STUDENT - COLLABORATION WITH DR. FRANCO RAIMONDI

Marc. 2012 - Exp. Jun. 2012

- Implementation of Proteus (a reconfiguration planner for adaptive systems).

Computer Communications Department, Middlesex University

London, UK

DOCTORAL GUEST STUDENT - COLLABORATION WITH DR. FRANCO RAIMONDI, DR. LEONARDO MOSTARDA

Jun. 2011 - Exp. Sep. 2011

- Prototypal definition of Proteus (a reconfiguration planner for adaptive systems).

Doctoral schools and courses followed

Dagstuhl School

Dagstuhl, Germany

SCHOOL

Jen. 16, 2015 - Exp. Jen. 23, 2015

- Model-driven Algorithms and Architectures for Self-Aware Computing Systems -
https://www.dagstuhl.de/no_cache/en/program/calendar/semhp/?semnr=15041

Carlo Bo - University of Urbino

Bertinoro (FC), Italy

SCHOOL

Jun 17, 2013 - Exp. Jun 22, 2013

- 13th International School on Formal Methods for the Design of Computer, Communication and Software Systems: Dynamical Systems
<http://www.sti.uniurb.it/events/sfm13ds/>

J. T. Schwartz International School for Scientific Research

Lipari (ME), Italy

SCHOOL

July 10, 2010 - Exp. July 17, 2010

- Biology and Computer Science: Modelling and Computing - Computer Science Series
<https://liparischool.it/LipariSchool/CS/previousedition/edition2010cs.htm>

British Institute

L'Aquila, Italy

ESOL CERTIFICATE

Sep. 2008 - Exp. April 2009

- Level A2 WAYSTAGE

University of L'Aquila

L'Aquila, Italy

TRAINING MODULE

Sep. 2006

- Progettazione e gestione di nodi intelligenti per le reti di nuova generazione

University of L'Aquila

L'Aquila, Italy

TRAINING MODULE

Sep. 2003

- Progettazione Software per componenti

Work Experiences

Everett S.p.a. - www.everett.nl

Pescara, Italy

STAGE

May 2009 - Exp. July 2009

- Customization and installation tool sun, and application developer by open-source technology.

Micron Technology Italia, www.micron.com/italy

Avezzano(AQ), Italy

MEMBER OF TRAINING AND DOCUMENTATION GROUP

Feb. 2006 - Exp. May 2006

- Design and implementation of electronic technical documentation in the context of semiconductor manufact.

Comando Militare Regionale "Molise"

MEMBER OF PUBLIC RELATIONS OFFICE

Campobasso, Italy

April 1999 - Exp. Dec. 1999

- Design and implementation of electronic documentation, development of applications for office management, collaboration in the management of military demonstrations for promotion and recruitment.

Teaching

Corso di BioInformatica - dr. Antinisa Di Marco, dr. Pasquale Caianiello

SEMINAR

Master Degree Computer Science

- Laboratory Support

Sistemi Informativi per la sanità e alfabetizzazione informatica

LECTURER

Roma, Italy

Oct. 2013 - Dec. 2013

- ICT Health 2013

Bachelor Thesis - Marco D'Ettore

CO-SUPERVISOR

L'Aquila, Italy

- Realizzazione di un database aperto per proteine ribosomiali

Bachelor Thesis - Pietro De Luca

CO-SUPERVISOR

L'Aquila, Italy

- Acquisizione in tempo reale diagnostica veicoli nell'ambito del progetto BusOnAir

Bachelor Thesis - Francesco Gallucci

CO-SUPERVISOR

L'Aquila, Italy

- Realizzazione di Sistemi di Tracing real time mediante piattaforma Arduino

Bachelor Thesis - Andrea Lisi

CO-SUPERVISOR

L'Aquila, Italy

- Acquisizione dati mediante tecnologia Near Field Communication e piattaforma hardware Arduino Yún

Extracurricular Activity

Software Technologies: Applications and Foundations (STAF)

MEMBER

L'Aquila, Italy

July 2015

- Support Staff.

Smartly S.r.l

CORE MEMBER

L'Aquila - Italy

May 2014 - PRESENT

Associazione Nuova Acropoli

MEMBER

L'Aquila, Italy

May 2011 - Oct. 2013

- Humanitarian aid and civil protection course.

23rd IEEE/ACM International Conference on Automated Software Engineering

MEMBER

L'Aquila, Italy

Sep. 2008

- Support Staff.

Awards

INTERNATIONAL

2010 **1st Place - Best Poster**, Learning from the Cell life-cycle: a self-adaptive paradigm - ECSA 2010

*Copenhagen,
Denmark*

DOMESTIC

Publications

5th International Workshop on Model-Driven Engineering for Component-Based Software Systems (ModComp 2018) co-located with MODELS 2018

Copenhagen, Denmark

AUTHOR

October 14, 2018

- Marco Autili, Amleto Di Salle, Francesco Gallo, Claudio Pompilio, Massimo
On the Model-driven Synthesis of Adaptable Choreographies

12th European Conference on Software Architecture: Companion Proceedings Article No. 20 - ECSA '18

Madrid, Spain

AUTHOR

September 24 - 28, 2018

- Marco Autili, Amleto Di Salle, Francesco Gallo, Claudio Pompilio, Massimo
On the model-driven synthesis of evolvable service choreographies

33rd Annual ACM Symposium on Applied Computing - SAC 2018

Pau, France

AUTHOR

April 09 - 13, 2018

- Marco Autili, Amleto Di Salle, Francesco Gallo, Claudio Pompilio, Massimo
Tivoli Model-driven adaptation of service choreographies

Edited by professionaldreamers, Springer, pp. 117-130 - Vol. 1.

L'Aquila, Italy

AUTHOR

2018

- Francesco Gallo, Ludovico Iovino, Enzo Falco, Ivano Malavolta, Adam Radzinski, Stefano Ruberto
ICTs and public transport in the dispersed city in Envisaging L'Aquila. Strategies, spatialities and sociabilities of a post-disaster city

Companion of the 2018 ACM/SPEC International Conference on Performance Engineering - ICPE '18

Berlin, Germany

AUTHOR

April 09 - 13, 2018

- Vittorio Cortellessa, Antiniscia Di Marco, Daniele Di Pompeo, Francesco Gallo, Stefano Pace, Luigi Pomante, Walter Tiberti
Energy-Driven Reconfiguration of Applications for Wireless Sensor Networks

Journal of Urban Technology, 24(4), pp. 1-23

AUTHOR

2017

- Enzo Falco, Ivano Malavolta, Adam Radzinski, Stefano Ruberto, Ludovico Iovino, Francesco Gallo
Smart City L'Aquila: An Application of the Infostructure Approach to Public Urban Mobility in a Post-Disaster Context

International Conference on the Science of Electrical Engineering - ICSEE 2016

Eilat, Israel

AUTHOR

Nov. 16 - 18, 2016

- Dajana Cassioli, Antiniscia Di Marco, Francesco Gallo, Stefano Pace, Luigi Pomante, Claudia Rinaldi
VISION: Video-oriented UWB-based intelligent ubiquitous sensing

Software Technologies: Applications and Foundations - STAF 2016

Vienna, Austria

AUTHOR

July 4-8, 2016

- Amleto Di Salle, Francesco Gallo, Claudio Pompilio
Composition of Advanced (micro)Services for the Next Generation of the Internet of Things

THE AMERICAN JOURNAL OF PATHOLOGY, vol. 186, p. 17

AUTHOR

2016

- Francesco Gallo, Antiniscia Di Marco, Valentina Mastroiaco, Pasquale Caianiello, Francesca Zazzeroni, Edoardo Alesse, Alessandra Testitore
new bioinformatics approach to identify target genes for dysregulated micrnas in a chemically-induced hepatocarcinoma mouse model

BMC Bioinformatics 2015, 16:408

AUTHOR

2015

- Filippo Del Vecchio, Francesco Gallo, Antiniscia Di Marco, Valentina Mastroiaco, Pasquale Caianiello, Francesca Zazzeroni, Edoardo Alesse, Alessandra Tessitore
Bioinformatics approach to predict target genes for dysregulated microRNAs in hepatocellular carcinoma: study on a chemically-induced HCC mouse model

International Conference on Software Engineering and Formal Methods - SEFM

York, UK

2015, pp 312-323

AUTHOR

Sept 7 -11, 2015

- Amleto Di Salle, Francesco Gallo, Alexander Perucci
Dependable Composition of Software and Services in the Internet of Things: A Biological Approach

International Conference on Software Engineering and Formal Methods - SEFM

York, UK

2015, pp 312-323

AUTHOR

Sept 7 -11, 2015

- Amleto Di Salle, Francesco Gallo, Alexander Perucci
Towards Adapting Choreography-Based Service Compositions Through Enterprise Integration Patterns

Software Engineering for Resilient Systems pp 1-15 - SERENE 2015

Paris, France

AUTHOR

Sept 7 - 8, 2015

- Marco Autili, Amleto Di Salle, Francesco Gallo, Alexander Perucci, Massimo Tivoli
Biological Immunity and Software Resilience: Two Faces of the Same Coin?

International Conference on Sensor Networks - Demo@SENSoRNETS 2015

Anger, France

AUTHOR

Feb. 11 - 13, 2015

- Dajana Cassioli, Antiniscia Di Marco, Francesco Gallo, Stefano Pace, Luigi Pomante, Claudia Rinaldi
VISION: Video-oriented UWB-based Intelligent Ubiquitous Sensing Demo of the Video-oriented Intelligent Sensing

International Conference on Advanced Information Networking and Applications - AINA '13

Barcelona, Spain

AUTHOR

Mar. 25 - 28, 2013

- Antiniscia Di Marco, Francesco Gallo, Orhan Gemikonakli, Leonardo Mostarda, Franco Raimondi
Implementing Adaptation and Reconfiguration Strategies in Heterogeneous WSN

Adaptive and Self-Adaptive Systems and Applications - ADAPTIVE 2012

Barcelona, Spain

AUTHOR

Mar. 25 - 28, 2013

- Antiniscia Di Marco, Francesco Gallo, Orhan Gemikonakli, Leonardo Mostarda, Franco Raimondi
Implementing Adaptation and Reconfiguration Strategies in Heterogeneous WSN

Self-Adaptive and Self-Organizing Systems - SASO 2010, pp: 269-270

Budapest, Hungary

AUTHOR

27 Sept.-1 Oct. 2010

- Antiniscia Di Marco, Francesco Gallo, Paola Inverardi, Rodolfo Ippoliti
Towards a Stem Architecture Description Language for Self-Adaptive Systems

European Conference on Software Architecture - ECSA 2010, pp: 485-488

Copenhagen, Denmark

AUTHOR

August 23 - 26, 2010

- Antiniscia Di Marco, Francesco Gallo, Paola Inverardi, Rodolfo Ippoliti
Learning from the cell life-cycle: a self-adaptive paradigm

Program Committees/reviewer

2018	Reviewer , Applied Sciences — Open Access Journal	<i>International Journal</i>
2018	Reviewer , JSAN — Open Access Journal	<i>International Journal</i>
2018	Reviewer , Sensors — Open Access Journal	<i>International Journal</i>
2018	Program Committee , Workshop on Engineering Collective Adaptive Systems - eCAS 2018	<i>Trento, Italy</i>
2018	Editor , International Journal of Emerging Research and Solutions in ICT - ERSICT	<i>International Journal</i>
2015	Web-Chair , 10th International Symposium on Software Engineering for Adaptive and Self-Managing Systems - SEAMS 2015	<i>Firenze, IT</i>
2015	Sub-Reviewer , Formal Engineering approaches to Software Components and Architectures - FESCA 2015	<i>London, UK</i>
2013	Sub-Reviewer , Fundamental Approaches to Software Engineering - FASE 2013	<i>Rome, Italy</i>
2012	Session-Chair , Adaptive and Self-Adaptive Systems and Applications - ADAPTIVE 2012	<i>Nice, France</i>