

# Sam Jesus Alejandro Guinea Montalvo

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# Position and Education

Abilitazione nazionale - 09/H1 Sistemi di Elaborazione delle Informazioni- II Fascia

## RECORD OF EMPLOYMENT

*January 2017 - October 2018*

Project Manager of the Polisocial Award Project “LYV - Lend Your Voice”

*November 2015 - November 2017*

Scientific Director of the Master in Apprendistato “Cloud Computing and Agile Methodologies” co-organized by Cefriel and Politecnico di Milano

*March 2011 –*

Assistant professor at the Department of Electronics and Computer Science of the Politecnico di Milano.

*November 2009 – February 2011*

Temporary assistant professor at the Department of Electronics and Computer Science of the Politecnico di Milano.

*April 2007 – October 2009*

Temporary research assistant at the Department of Electronics and Computer Science of the Politecnico di Milano working on “Tecnologie di middleware e infrastrutture di monitoraggio a supporto di sistemi dinamici e pervasivi” (*Middleware technologies and monitoring infrastructures for dynamic and pervasive systems*).

## EDUCATION

- Ph.D. in Information Engineering at Politecnico di Milano. 2007.  
Title: *Dynamo: a Framework for the Supervision Of Web Service Compositions*  
Advisor: *C. Ghezzi*  
Reviewer: *S. Dustdar*
- M.Sc. in Ingegneria Informatica. April 2003.  
(Thesis title: *Repository per learning object*, Advisor *P. Paolini*)
- Scientific high school diploma from Liceo Argonne. 1997.

## SCHOLARSHIPS

- PhD scholarship from Prolearn CEE Network of Excellence (2004 - 2007).

# Teaching Activity

The following activities consist of institutional courses at Politecnico di Milano.

2016-2017

Middleware Technologies for Distributed Systems (*Professor*) - Informatics Engineering - Graduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

2015-2016

Middleware Technologies for Distributed Systems (*Professor*) - Informatics Engineering - Graduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

2014-2015

Middleware Technologies for Distributed Systems (*Professor*) - Informatics Engineering - Graduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

Mobile Programming (*Teaching assistant for Prof. Baresi*) - Graduate level.

2013-2014

Business Process Management (*Professor*) - PhD Course at the Dipartimento di Elettronica, Informazione e Bioingegneria

Service Technologies (*Professor*) - Informatics Engineering - Graduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

Mobile Programming (*Teaching assistant for Prof. Baresi*) - Graduate level.

2012-2013

Service Technologies (*Professor*) - Informatics Engineering - Graduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

Mobile Programming (*Teaching assistant for Prof. Baresi*) - Graduate level.

2011-2012

Service Technologies (*Professor*) - Informatics Engineering - Graduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

2010-2011

Tecnologia dei Servizi (*Professor*) - Informatics Engineering - Graduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

2009-2010

Informatica A (*Professor*) - Mathematics Engineering - Undergraduate level.

Progetto di Ingegneria Informatica A (*Professor*) - Informatics Engineering - Undergraduate level.

Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.

Tecnologia dei Servizi (*Teaching assistant for Prof. Baresi*) - Informatics Engineering - Graduate level.

2008-2009

Progetto di Ingegneria Informatica (*Professor*) - Informatics Engineering - Undergraduate level.  
Informatica A (*Teaching assistant for Prof. Fuggetta*) - Physics Engineering - Undergraduate level.  
Ingegneria del Software (*Teaching assistant for Prof. Ghezzi*) - Informatics Engineering - Undergraduate level.  
Tecnologia dei Servizi (*Teaching assistant for Prof. Baresi*) - Informatics Engineering - Graduate level.

2007-2008

Informatica A (*Professor*) - Physics Engineering - Undergraduate level.  
Ingegneria del Software (*Teaching assistant for Prof. Ghezzi*) - Informatics Engineering - Undergraduate level.  
Tecnologia dei Servizi (*Teaching assistant for Prof. Baresi*) - Informatics Engineering - Graduate level.

2006-2007

Informatica A (*Teaching assistant for Prof. Campi*) - Mathematics Engineering - Undergraduate level.  
Informatica A (*Lab assistant for Prof. Campi*) - Mathematics Engineering - Undergraduate level.  
Ingegneria del Software (*Teaching assistant for Prof. Ghezzi*) - Informatics Engineering - Undergraduate level.  
Informatica II - campus Cremona (*Teaching assistant for Prof. Baresi*) - Informatics Engineering - Undergraduate level.

2005-2006

Ingegneria del Software (*Teaching assistant for Prof. Ghezzi*) - Informatics Engineering - Undergraduate level.  
Informatica II - campus Cremona (*Teaching assistant for Prof. Baresi*) - Informatics Engineering - Undergraduate level.

2004-2005

Ingegneria del Software (*Teaching assistant for Prof. Ghezzi*) - Informatics Engineering - Undergraduate level.  
Informatica II - campus Cremona (*Teaching assistant for Prof. Baresi*) - Informatics Engineering - Undergraduate level.

2003-2004

Ingegneria del Software (*Lab assistant for Prof. Ghezzi*) - Informatics Engineering - Undergraduate level.

The following activities consist of master and PhD courses.

2016

Business Process Management (*Professor* - in collaboration with Prof. Pierluigi Plebani)

2015

Software Engineering course of the Master in Cloud Computing and Agile Methodologies co-organized by Cefriel and Politecnico di Milano (*Professor* - in collaboration with Prof. Luca Mottola)  
Cloud Computing course of the Master in Cloud Computing and Agile Methodologies co-organized by Cefriel and Politecnico di Milano (*Professor*)

2014

Business Process Management (*Professor* - in collaboration with Prof. Pierluigi Plebani)

2007

Bridging SOA and Web 2.0- A Service Delivery Model (*Professor*) - WEE-NET Summer Doctoral School - Facultad de Informatica - Universidad Nacional de La Plata

Tecnologie SOA (*Teaching assistant for Prof. Baresi*) - Cefriel Master course

2006

Tecnologie SOA (*Teaching assistant for Prof. Baresi*) - Cefriel Master course

Sam has also taught numerous courses on Software Engineering, Java Programming, Python Programming, Service Technology, Cloud Computing, and Mobile Development to companies through Cefriel, starting since 2007.

## STUDENTS' SUPERVISION

### PhD Reviewer/Examiner

- *Michael Vierhauser* 2016, "Requirements Monitoring of Systems of Systems", Johannes Kepler Universität, Linz Austria

### Graduate Students Supervision/Co-Advisor

- *Andrea Turri and Riccarso Redaelli* 2015-2016, "Montypi - A Model-Driven Middleware for the Runtime Management of IoT Systems"
- *Matteo Gazzetta* 2015-2016, "CSpark - Allocazione dinamica a grana fine per applicazioni Big Data con requisiti di qualit" *CSpark - Fine-grained Dynamic Allocation for Big Data Applications with Quality Requirements*
- *Marco Mezzanotte and Luca Baggi* 2014-2015, "A Distributed Framework for Proximity Aware Android Applications"
- *Jacopo Aliprandi and Dario Archetti* 2014-2015, "SPF : Social Proximity Framework. A Middleware for Social Interactions in Mobile Proximity environments"
- *Lorenzo Affetti and Giacomo Bresciani* 2014-2015, "Towards Virtual Machine Consolidation in Open-Stack"
- *Francesco Castelli* 2014-2015, "A3Droid : un'implementazione dello stile architetturale A-3 per dispositivi mobili" *A3Droid: an Implementation of the A-3 Architectural Style for Mobile Devices*
- *Giovanni Quattrocchi* 2013-2014, "Coordinamento di attuatori in cicli di controllo multi-livello in applicazioni cloud" *Actuator Coordination in Multi-level Control Loops in Cloud Applications*
- *Daniele Galli* 2012-2013, "Coordinamento di cicli di controllo in sistemi distribuiti basati su gruppi" *Control Loop Coordination in Distributed Systems based on groups*
- *Marco Bettineschi* 2012-2013, "Self coordination through dynamic group management"
- *Damiano Bonetti and Stefano Ciceri* 2012-2013, "La version consistency nella riconfigurazione dinamica dei processi di business" *Version Consistency in the Dynamic Reconfiguration of Business Processes*

- *Lorenzo Cavazzi* 2011-2012, “easyHTML5: Sviluppo di Applicazioni Web mediante MVVM” (*easy-HTML5: Developing Web Applications with MVVM*)
- *Stefano Sainaghi* 2011-2012, “Multi-level service monitoring”
- *Daniele Luigi Scrimieri* 2009-2010, “Un approccio Model-Driven alla gestione di applicazioni a servizi” (*A Model-driven Approach to Managing Service-based Applications*)
- *Francesco Castelli* 2009-2010, “Gestione di gruppi di dispositivi portatili” (*Management of Groups of Mobile Devices*)
- *Elia Polo* 2009-2010, “Creazione e Gestione della Composizione Sicura di Servizi Web” (*Creation and Management of Secure Web Service Compositions*)
- *Davide Airoidi and Stefania Banfi* 2008-2009, “Mashlight Editor: Un ambiente di sviluppo per la creazione di processi Mashlight” (*Mashlight Editor: A Development Environment for creating Mashlight Processes*)
- *Giuseppe Rossito and Danilo Sabato* 2008-2009, “Mashlight 2.0: Un framework lightweight per mashup” (*Mashlight 2.0: A Lightweight Framework for Mashups*)
- *Emanuele Palese* 2007-2008, “A-3: Un framework per applicazioni autonome” (*A-3: A Framework for Autonomic Applications*)
- *Matteo Albinola and Matteo Carcano* 2007-2008, “Mashlight: un framework lightweight per mashup” (*Mashlight: a Lightweight Framework for Mashups*)
- *Gabriele Turconi* 2007-2008, “Monitoraggio asincrono di proprietà temporali di processi BPEL” (*Asynchronous Monitoring of BPEL Process Temporal Properties*)
- *Liliana Pasquale* 2006-2007, “Un sistema a regole per l'orchestrazione self-healing di processi BPEL” (*A Rule-based System for Orchestrating Self-healing BPEL Processes*)
- *Luca Galluppi* 2006-2007, “Un approccio integrato al monitoraggio e recover di processi di workflow” (*An Integrated Approach to the Monitoring and Recovery of Workflow Processes*)

# Professional Activity

## OPEN SOURCE PROJECTS

Sam Jesus Alejandro Guinea Montalvo created, and was one of the main contributors to, the “Location Services” Working Group inside the AllSeen Alliance during 2015. The AllSeen Alliance is a nonprofit consortium dedicated to enabling and driving the widespread adoption of products, systems and services that support the Internet of Everything.

## NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

Sam Jesus Alejandro Guinea Montalvo is the Project Manager of “LYV - Lend Your Voice”, a Polisocial Award Project for 2016-2017. In LYV we focus on using multi-media storyTelling tools to facilitate the vocal and prosodic rehabilitation of children with autism, and to improve the use of the English language by young adults that suffer from specific learning disabilities.

Sam Jesus Alejandro Guinea Montalvo has contributed in the following research projects:

- ITS Italy 2020 - Soluzioni ICT a supporto della logistica e dei processi di trasporto - Progetto finanziato dal Ministero dell'Istruzione dell'Universit e della Ricerca, all'interno del programma di sviluppo e potenziamento di cluster tecnologici nazionali
- *Attiv@bili - Assistenza digitale e innovazione Sociale in Ambienti Controllati - Bando Smart Cities Lombardia*
- *Indenica - Engineering Virtual Domain-Specific Service Platforms*, FP7 STREP  
(local project leader: prof. Baresi)
- *Self-Managing Situated Computing (SMSCom)*, EUROPEAN COMMISSION PROGRAMME IDEAS-ERC  
(local project leader: prof. Ghezzi)
- *SLA@SOI*, FP7 IP  
(local project leader: prof. Baresi)
- *Software Services and Systems Network (SCube)*, FP7 NOE  
(local project leader: prof. Ghezzi)
- *Component-ware for Autonomic Situation-aware Communications, and Dynamically Adaptable Services (Cascadas)*, FP6 IP  
(local project leader: prof. Di Nitto)
- *Service Centric Systems Engineering (SeCSE)*, FP6 IP  
(local project leader: prof. Di Nitto)
- *Prolearn*, FP6 NETWORK OF EXCELLENCE  
(local project leader: prof. Ceri)
- *Virtual Campus*, MICROSOFT RESEARCH FUNDED PROJECT  
(local project leader: prof. Ghezzi)

## CONFERENCE AND WORKSHOP ORGANIZATION

Sam Jesus Alejandro Guinea Montalvo has been involved in the organization of the following conferences and workshops:

- Co-organizer of the 1st International Workshop on Monitoring in Large-Scale Software Systems, MOLS 2017 at ICPE 2017 - Aquila, Italy, April 22-26, 2017
- Web Chair of the 13th Working IEEE/IFIP Conference on Software Architecture (WICSA) and of the co-located CompArch federated conference - Venice, Italy, April 5–8, 2016
- Co-organizer of the 2nd International Workshop on Quality Assurance for Service-based applications, QASBA 2012 at ISSTA 2013 - Lugano, Switzerland, July, 15, 2013
- Co-chair of the Demonstration Track at the 9th International Conference on Service Oriented Computing (ICSOC 2011).
- Co-organizer of the 1st International Workshop on Quality Assurance for Service-based applications, QASBA 2011 at ECOWS 2011 - Lugano, Switzerland, September 14, 2011

## PROGRAM COMMITTEE MEMBERSHIP

Sam Jesus Alejandro Guinea Montalvo was also a member of the Program Committee of the following conferences/workshops:

- 8th International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE) - 20-24 March 2016, Rome, Italy
- 7th International Workshop on Principles of Engineering Service-Oriented and Cloud Systems (PESOS) - 16-24 May, Florence, Italy
- 7th International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE) - 22-27 March 2015, Nice, France
- 12th International Conference on E-Business (ICE-B) - 20-22 July 2015, Comar, Alsace, France
- 6th International Workshop on Principles of Engineering Service-Oriented Systems (PESOS) at 36th ACM/IEEE International Conference on Software Engineering
- 2nd International Workshop on Service Clouds in the Enterprise and Beyond
- 10th International Conference on E-Business (ICE-B) - 29-31 July 2013, Reykjavik, Iceland
- 5th International Workshop on Principles of Engineering Service-Oriented Systems (PESOS) at 36th ACM/IEEE International Conference on Software Engineering
- 1st International Workshop on Adaptive Service Ecosystems: Nature and Socially Inspired Solutions organized at the Sixth IEEE International Conference on Self-Adaptive and Self-Organizing Systems - Lyon, France, September 2012
- 2nd International Workshop on Variability-intensive Systems Testing, Validation & Verification (VAST) - April 21, 2011, Montreal, Canada
- 4th Workshop on Monitoring, Adaptation, and Beyond (MONA+) at ServiceWave 2011 Conference - October, 2011, Poznan, Poland
- 8th International Conference on Mobile Web Information Systems (MobiWIS), 19-21 September 2011, Niagara Falls, Ontario, Canada



- 3rd International Workshop on Principles of Engineering Service-Oriented Systems (PESOS) at 33rd ACM/IEEE International Conference on Software Engineering
- 1st Workshop on Variability-intensive Systems Testing, Validation & Verification at ICST 2011 Conference - March 21-25, 2011, Berlin, Germany
- 3rd Workshop on Monitoring, Adaptation, and Beyond (MONA+) at ServiceWave 2010 Conference - December 13-15, 2010, Ghent, Belgium
- 2nd Workshop on Monitoring, Adaptation, and Beyond (MONA+) at ICSOC/ServiceWave 2009 Conference - November 24-27, 2009, Stockholm, Sweden
- 1st International Conference on Intensive Applications and Services (INTENSIVE 2009) - April 21-25, 2009, Valencia, Spain

## REFEREE SERVICES

Sam Jesus Alejandro Guinea Montalvo is a reviewer for the following conferences/journals:

- IEEE Transactions on Software Engineering
- IEEE Transactions on Services Computing
- ACM Transactions on Autonomous and Adaptive Systems
- Springer Journal - Service Oriented Computing and Applications
- Elsevier - The Journal of Systems and Software
- International Conference on Service Oriented Computing
- International Workshop on Verification, Analysis, and Testing of Service Systems
- International Workshop on Quality Assurance for Service-based Applications
- International Conference on Mobile Web Information Systems
- International Workshop on Principles of Engineering Service-Oriented Systems
- Workshop on Variability-intensive Systems Testing, Validation & Verification
- Workshop on Monitoring, Adaptation, and Beyond
- International Conference on Intensive Applications and Services

## INVITED TALKS

- Johannes Kepler University Linz, Austria invited by Prof. Paul Grunbacher, November 27th 2014 - Title: "A Fine-grained Autonomic Management Solution for Multi-layered Systems "
- Politecnico di Milano, PhD course on "Self-Adaptive Systems", November 20th 2013 - Title: "Architectural Styles for Adaptive Systems"
- NII-DeepSE Workshop Milan, September 30th - October 1st 2013 - Title: "A Fine-grained Autonomic Management Solution for Multi-layered Systems"
- Keynote speech at the Monitoring, Adaptation, and Beyond (MONA+) workshop, held at the Service-Wave 2008 conference Madrid, December 13, 2008 - Title: "Monitoring and Adaptation in Open-world Software"

- Politecnico di Milano, PhD course on “Autonomic Computing” - Title: “Complex Event Processing in Autonomic Systems”, 2008
- Vienna University of Technology, Austria invited by Prof. Schahram Dustdar. - Title: “Dynamo: a Supervision Framework for Web Service Compositions”, 2006
- Politecnico di Milano - Title: “Una estensione fuzzy al linguaggio XPath” (*A Fuzzy Extension to the XPath language*), 2006
- Gruppo Italiano Ingegneria del Software - Title: “Dynamic Monitoring of SoAs - one year later”, 2005
- Seminar for Prof. Ghezzi’s course at Politecnico di Milano “Argomenti avanzati di Ingegneria del Software” (*Advanced Software Engineering Arguments*) Title: “An Introduction to Self-Healing Web Services”, 2004
- Dipartimento di Informatica, Sistemistica e Comunicazioni - Universit degli Studi di Milano (Bicocca) - invited by Prof. Pezz. Title: “Smart Monitors for Composed Services.”, 2004
- Gruppo Italiano Ingegneria del Software - Title: “Dealing with Ephemerality in the world of e-services”, 2004

#### TUTORIALS

- “Architectural Styles for Adaptive Systems” - 6th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO) 2012
- “Tutorial: Towards Dynamic Web Services” 28th International Conference on Software Engineering (ICSE) 2006
- “An Introduction to Self-Healing Web Services” - 10th IEEE International Conference on Engineering of Complex Computer Systems (ICECCS) 2005

# Complete Publication List

## PUBLICATION LIST FOR SAM GUINEA - AS OF 31ST OF MAY 2017

Refereed international journals	9
Refereed international books and book chapters	7
Refereed international conferences	39
Workshops	14
Total number of publications	69
Total number of citations	2445
Paper with maximum number of citations	359
H-index (Hirsch number)	25

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### REFEREED INTERNATIONAL JOURNALS

- JR.1. R. Rabiser, S. Guinea, M. Vierhauser, L. Baresi and P. Grunbacher "A Comparison Framework for Runtime Monitoring Approaches" *Journal of Systems and Software*, pp. 309-321, 2017 (ISSN: 0164-1212)  
[doi:<https://doi.org/10.1016/j.jss.2016.12.034>]
- JR.2. S. Distefano, C. Ghezzi, S. Guinea, R. Mirandola "Dependability Assessment of Web Service Orchestrations" *IEEE Trans. on Reliability Special Section on Information, System, and Software Assurance: Research & Practice* (ISSN:0018-9529)  
[doi: <http://dx.doi.org/10.1109/TR.2014.2315939>]
- JR.3. L. Baresi, S. Guinea, L. Pasquale "Service-Oriented Dynamic Software Product Lines with DyBPEL," *IEEE Computer*, (ISSN: 0018-9162)  
[doi: <http://doi.ieeecomputersociety.org/10.1109/MC.2012.289>]
- JR.4. L. Baresi, S. Guinea, "Self-supervising BPEL Processes," *IEEE Transactions on Software Engineering*, (ISSN: 0098-5589)  
[doi: <http://doi.ieeecomputersociety.org/10.1109/TSE.2010.37>]
- JR.5. L. Baresi, S. Guinea, O. Nano, G. Spanoudakis, "Comprehensive Monitoring of BPEL Processes," *IEEE Internet Computing*, (ISSN: 1089-7801)  
[doi: [doi.ieeecomputersociety.org/10.1109/MIC.2010.66](http://doi.ieeecomputersociety.org/10.1109/MIC.2010.66)]
- JR.6. A. Campi, E. Damiani, S. Guinea, S. Marrara, G. Pasi, P. Spoletini, "A Fuzzy Extension for the XPath Query Language," *Journal of Intelligent Information Systems* Vol. 33, no. 3, (2009), pp. 285-305 (ISSN: 0925-9902)  
[doi: <http://dx.doi.org/10.1007/s10844-008-0066-3>]
- JR.7. A.Campi, S. Ceri, E. Duvall, S. Guinea, D. Massart, S. Ternier, "Interoperability for searching Learning Object Repositories: The PROLEARN Query Language," *D-LIB Magazine* Vol. 14, no. 1, (2008), (ISSN: 1082-9873)  
[doi: <http://dx.doi.org/10.1045/january2008-ceri>]
- JR.8. L. Baresi, C. Ghezzi, S. Guinea, E. DiNitto, "A Framework for the Deployment of Adaptable Web Service Compositions," *Journal on Service Oriented Computing and Applications* Vol. 1, no. 1, (2007), pp. 75-91 (ISSN: 1863-2386)  
[doi: <http://dx.doi.org/10.1007/s11761-007-0004-1>]
- JR.9. L. Baresi, D. Bianculli, C. Ghezzi, S. Guinea, P. Spoletini, "Validation of Web Service Compositions," *IET Software* Vol. 1, no. 6, (2007), pp. 219-232 (ISSN: 1751-8806)  
[doi: <http://dx.doi.org/10.1049/iet-sen:20070027>]

### REFEREED CHAPTERS IN INTERNATIONAL BOOKS

- IB.1. L. Baresi, D. Bianculli, S. Guinea "Cloud-based Systems Need Multi-level Management" in *Advanced Web Services* pp. 579-603, 2014 (ISBN: 978-1-4614-7534-7)  
[doi: [http://dx.doi.org/10.1007/978-1-4614-7535-4\\_24](http://dx.doi.org/10.1007/978-1-4614-7535-4_24)]
- IB.2. L. Baresi, S. Guinea, and P. Saeedi "Achieving Self-Adaptation through Dynamic Group Management" in *Assurances for Self-Adaptive Systems* pp. 214-239, 2013 (ISBN: 978-3-642-36248-4)  
[doi: [http://dx.doi.org/10.1007/978-3-642-36249-1\\_8](http://dx.doi.org/10.1007/978-3-642-36249-1_8)]

- IB.3. S. Guinea, A. Marconi, N. Rasadka, and P. Zampognaro, "Managing Composite Services" in *Service Level Agreements for Cloud Computing* pp. 251-268, 2011 (ISBN: 978-1-4614-1613-5)  
[doi: [http://dx.doi.org/10.1007/978-1-4614-1614-2\\_15](http://dx.doi.org/10.1007/978-1-4614-1614-2_15)]
- IB.4. D. Bianculli, C. Ghezzi, P. Spoletini, L. Baresi, S. Guinea, "Guided Tour through SAVVY-WS: a Methodology for Specifying and Validating Web Service Compositions," in *Recent Advances in Software Engineering*, pp. 131-160, 2007 (ISBN: 978-3-540-89761-3)  
[doi: [http://dx.doi.org/10.1007/978-3-540-89762-0\\_5](http://dx.doi.org/10.1007/978-3-540-89762-0_5)]
- IB.5. L. Baresi, C. Ghezzi, S. Guinea, "Towards Self-healing Composition of Services," in *Contributions to Ubiquitous Computing*, pp. 27-46, 2007 (ISBN: 978-3-540-44909-6)  
[doi: [http://dx.doi.org/10.1007/978-3-540-44910-2\\_2](http://dx.doi.org/10.1007/978-3-540-44910-2_2)]
- IB.6. C. Ghezzi, S. Guinea, "Run-time Monitoring in Service Oriented Architectures," in *Test and analysis of Web services*, pp. 237-264, 2007 (ISBN: 978-3-540-72912-9)  
[doi: [http://dx.doi.org/10.1007/978-3-540-72912-9\\_9](http://dx.doi.org/10.1007/978-3-540-72912-9_9)]
- IB.7. L. Baresi, S. Guinea, M. Plebani, "Business Process Monitoring for Personal Dependability," in *Architecting Dependable Systems IV*, pp. 337-361, 2007 (ISBN: 978-3-540-74033-9)  
[doi: [http://dx.doi.org/10.1007/978-3-540-74035-3\\_15](http://dx.doi.org/10.1007/978-3-540-74035-3_15)]

## REFEREED INTERNATIONAL CONFERENCES

- IC.1. L. Baresi, N. Derakhshan, S. Guinea and F. Arenella "MAGNET: A Middleware for The Proximal Interaction of Devices based on Wi-Fi Direct" *Proc. of the 2017 IEEE International Conference on Communications*  
[doi:]
- IC.2. L. Baresi, A. Leva, S. Guinea and G. Quattrocchi "A Discrete-Time Feedback Controller for Containerized Cloud Applications" *Proc. of the 24th ACM SIGSOFT Symposium on the Foundations of Software Engineering*  
[doi:<http://dx.doi.org/10.1145/2950290.2950328>]
- IC.3. L. Baresi, N. Derakhshan and S. Guinea "WiDiSi: A Wi-Fi direct simulator" *Proc. of the 2016 IEEE Wireless Communications and Networking Conference*  
[doi:<http://dx.doi.org/10.1109/WCNC.2016.7565169>]
- IC.4. L. Baresi, S. Guinea, G. Quattrocchi and D.A. Tamburri "MicroCloud: A Container-Based Solution for Efficient Resource Management in the Cloud" *Proc. of the 2016 IEEE International Conference on Smart Cloud*  
[doi:<http://dx.doi.org/10.1109/SmartCloud.2016.42>]
- IC.5. L. Affetti, G. Bresciani, and S. Guinea "aDock: A Cloud Infrastructure Experimentation Environment based on Open-Stack and Docker" *Proc. 8th International Conference on Cloud Computing* 15% acceptance rate  
[doi:<http://dx.doi.org/10.1109/CLOUD.2015.36>]
- IC.6. L. Baresi, L.-W. Goix, S. Guinea, V. Panzica La Manna, J. Aliprandi and D. Archetti "SPF: A Middleware for Social Interaction in Mobile Proximity Environments" *Proc. 37th International Conference on Software Engineering - Software Engineering in Practice Track* 22.5% acceptance rate  
[doi:<http://dx.doi.org/10.1109/ICSE.2015.137>]
- IC.7. L. Baresi, S. Guinea and G. Quattrocchi "Distributed Coordinated Adaptation of Cloud-based Applications" *Proc. 13th International Conference on Software Engineering and Formal Methods, SEFM 2015*  
[doi:[http://dx.doi.org/10.1007/978-3-662-49224-6\\_\\$18](http://dx.doi.org/10.1007/978-3-662-49224-6_$18)]
- IC.8. L. Baresi and S. Guinea "Event-Based Monitoring of Service-Oriented Smart Spaces" *Proc. 8th International Conference on Service-Oriented Computing and Applications (SOCA)*  
[doi:<http://dx.doi.org/10.1109/FSOCA.2015.49>]
- IC.9. A. Campi, S. Guinea, P. Spoletini "An Operational Semantics for XML Fuzzy Queries" *Proc. 6th International Conference on Fuzzy Computation Theory and Applications*  
[doi:<http://dx.doi.org/10.5220/0005155502050210>]
- IC.10. F. Seracini, N. Menarini, I. Krueger, L. Baresi, S. Guinea, G. Quattrocchi "A Comprehensive Resource Management Solution for Web-based Systems" *Proc. 11th International Conference on Autonomic Computing*  
[doi:]
- IC.11. L. Baresi, S. Guinea, V. Panzica La Manna "Consistent Runtime Evolution of Service-based Business Processes" *Proc. 11th Working IEEE/IFIP Conference on Software Architecture*  
[doi: <http://dx.doi.org/10.1109/WICSA.2014.24>]

- IC.12. L. Baresi, S. Guinea, P. Saeedi “Self-managing Overlays for Infrastructure-less Networks” *Proc. 7th IEEE International Conference on Self-Adaptive and Self-Organizing Systems*  
[doi:<http://dx.doi.org/10.1109/SASO.2013.25>]
- IC.13. L. Baresi, S. Guinea “Event-based Multi-level Service Monitoring” *Proc. 20th International Conference on Web Services*  
[doi:<http://doi.ieeecomputersociety.org/10.1109/ICWS.2013.21>]
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Autorizzo il trattamento dei dati personali ai sensi del D. lgs. 196/03.

30th of May 2017

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