

PERSONAL INFORMATION

Francesco Brancati



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Sex Male | Date of birth 28/09/1979 | Nationality Italian

POSITION

R&D Director @ Resiltech s.r.l.

WORK EXPERIENCE

07/2012 – Now

Administrative and Scientific Director of the R&D Division

Resiltech s.r.l.,
Piazza Nilde Iotti 25
56025 Pontedera (PI), Italy
<http://www.resiltech.com>

Business or sector R&D

02/2012 – 07/2012

Senior Resercher

Resiltech s.r.l.
Business or sector R&D

EDUCATION AND TRAINING

02/2009 – 01/2012

Ph.D in Computer Science

Università di Firenze, Dipartimenti di Sistemi e Informatica, Resilient Computing Lab

Viale Morgagni 65, 50139 Firenze.

- Ph.D. Thesis: Adaptive and Safe Estimation of Different Sources of Uncertainty to Improve Dependability of Highly Dynamic Systems Through Online Monitoring Analysis
- Supervisor: prof. Andrea Bondavalli

07/2008

MsC in Computer Science

Università di Firenze, Dipartimenti di Sistemi e Informatica,

- MsC. Thesis: Progettazione di uno strumento di misura del tempo capace di autovalutarsi ed autocalibrarsi

Supervisor: prof. Andrea Bondavalli

PERSONAL SKILLS

Mother tongue(s)

Italiano

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Publications

- A. Ceccarelli et al.. **"Design and implementation of real-time wearable devices for a safety-critical track warning system"**. HASE 2012, in press. 2012.
- A. Ceccarelli, A. Bondavalli, F. Brancati and L. Falai. **"Providing safety-critical and real-time services for mobile devices in uncertain environment"**. In Higuera-Toledano, Brinkschulte and Rettberg (eds), . Springer, in press. 2012
- A. Ceccarelli, A. Bondavalli, F. Brancati and E. L. Mattina. **"Improving Security of Internet Services Through Continuous and Transparent User Identity Verification"**. SRDS 2012, in press. 2012.
- A. Bondavalli, F. Brancati, A. Flammini and S. Rinaldi. **"Master Failure Detection Protocol in Internal Synchronization Environment"**, To appear in Instrumentation and Measurement, IEEE Transactions on. 2012.
- P. Ferrari, A. Flammini, S. Rinaldi, A. Bondavalli, F. Brancati: **Experimental Characterization of Uncertainty Sources in a Software-only Synchronization System**, Instrumentation and Measurement, IEEE Transactions on, Vol. 61, pp. 1512-1521, May, 2012.
- F. Brancati. **"Adaptive and Safe Estimation of Different Sources of Uncertainty to Improve Dependability of Highly Dynamic Systems Through Online Monitoring Analysis "**. Ph.D. thesis, Dipartimento di Sistemi e Informatica, Università di Firenze, 14 May 2012.
- A. Bondavalli, F. Brancati, A. Flammini, S. Rinaldi. **A Reliable and Self-Aware Clock for Reference Time Failure Detection in Internal Synchronization Environment**, IEEE International Workshop on Measurements and Networking (M&N 2011). 2011.
- A. Bovenzi, F. Brancati, A. Bondavalli, S. Russo. **Towards identifying OS-level anomalies to detect Application Software Failures**, IEEE International Workshop on Measurements and Networking (M&N 2011). October 2011
- P. Ferrari, A. Flammini, S. Rinaldi, A. Bondavalli, F. Brancati. **Evaluation of timestamping uncertainty in a software-based IEEE1588 implementation**, Instrumentation and Measurement Technology Conference (I2MTC 2011), IEEE , vol., no., pp.1-6, 10-12 May 2011
- A. Bovenzi, F. Brancati, S. Russo, and A. Bondavalli. **A statistical anomaly-based algorithm for on-line fault detection in complex software critical systems**. In: Computer Safety, Reliability, and Security, (SAFECOMP 2011) volume 6894 of Lecture Notes in Computer Science, pages 128–142. Springer Berlin / Heidelberg, 2011.
- Bondavalli A.; Brancati F.; Ceccarelli A.; **"Monitoring di Sistemi"**. In L'Analisi Quantitativa dei Sistemi Critici. A cura di Andrea Bondavalli, Società Editrice Esculapio, ISBN 978-88-7488-431-5, Prima edizione, pp. 201–232, Marzo, 2011.
- A. Bondavalli, F. Brancati, A. Ceccarelli, and M. Vadursi. **Experimental validation of a synchronization uncertainty-aware software clock**. In 2010 29th IEEE Symposium on Reliable Distributed Systems (SRDS 2010), pages 245–254, November 2010
- F. Brancati and A. Bondavalli. **Practical aspects in analyzing and sharing the results of experimental evaluation**. In 2010 29th IEEE Symposium on Reliable Distributed Systems (SRDS 2010), pages 328 –332, November 2010.(SRDS 2010)
- A. Bondavalli, F. Brancati, P. Ferrari, A. Flammini and S. Rinaldi. **Improving Robustness of the Synchronization Quality of IEEE1588 Nodes**. 2010 International IEEE Symposium on Precision Clock Synchronization for Measurement Control and Communication (ISPCS 2010), Portsmouth (NH), USA, September 27-October 1, 2010, pp. 36-41.
- A. Bondavalli, F. Brancati, and A. Ceccarelli. **Safe estimation of time uncertainty of local clocks**. In Proc. of Int. IEEE Symp. on Precision Clock Synch. for Measur., Contr. and Comm.(ISPCS 2009), pages 47-52, 2009
- A. Bondavalli, F. Brancati, A. Ceccarelli, and L. Falai. **An experimental framework for the analysis and validation of software clocks**. In LNCS Software Technologies for Embedded and Ubiquitous Systems (SEUS 2009), pages 69-81, 2009.
- F. Brancati. **Progettazione di uno strumento di misura del tempo capace di autovalutarsi ed autocallibrarsi**. Master Thesis in INFORMATICA, Università degli studi di Firenze, July 2008.