Curriculum Vitae of Filipe Araujo on June 7^{th} 2017

1 Short Biography

Name: Filipe João Boavida de Mendonça Machado de Araújo
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1.1 Degrees

Filipe Araujo received his graduation in Electrical Engineering in 1996 and his M. Sc. in Informatics Engineering in 1999, both from the University of Coimbra. He received his PhD in Informatics Engineering in 2006 from the University of Lisboa, Portugal.

1.2 Experience

Since 2006 Filipe Araujo is an Assistant Professor at the University of Coimbra. He also taught as Teaching Assistant at the University of Lisboa and at the Polytechnic Institute of Leiria.

1.3 Research Interests

The current research interests of Filipe Araújo include distributed systems, grid and cloud computing, parallel computing, computer networks and security. In the past he has also worked on neural networks for resolution of optimization problems and Quality of Service (QoS), including QoS-aware routing.

On June 7^{th} 2017, Filipe Araujo had 856 citations and an h-index of 13, according to Google scholar.

2 Teaching Activities

Filipe Araujo has been teaching the courses of Enterprise Application Integration and Services Engineering to M. Sc. students in Informatics Engineering. He is the author of the blog Enterprise Application Integration (`http://eai-course.blogspot.pt`), where he writes about Java Enterprise Edition. This blog has received more than 80,000 visits from all over the world.

3 Recent Research Projects

Filipe Araújo participated in a large number of research projects. He was, the coordinator of EDGeS, EDGI and TRONE in his research institute. He was the principal investigator in HPCoLSI.

1. EDGeS: Enabling Desktop Grids for eScience (http://edges-grid.eu/). Period: 2008-2010. Project supported by the 7^{th} Framework Programme of the EU with 2.45 Million Euros. It included 9 institutions.

2. EDGI: European Desktop Grid Initiative (http://edgi-project.eu/). Period: 2 years, started on June 1^{st} 2010. Project supported by the 7^{th} Framework Programme of the EU with 2.15 Million Euros. It includes 11 institutions.

3. HPCoLSI: High Performance Computing Over the Large Scale Internet (PTDC/EIA-EIA/102212/2008). Period: 3 years, started on May 2010. Project supported by the Portuguese Science Foundation (FCT) in 127000 Euros.

4. TRONE: Trustworthy and Resilient Operations in a Network Environment (CMU-PT/RNQ/0015/2009). Period: 3 years, started on October 2010. Project supported by the Portuguese Science Foundation (FCT) in aprox. 291000 euros.

5. CHOPIN: Cooperation between Human and rObotic teams in catastroPhic INcidents (PTDC/EEA-CRO/119000/2010). Period: 3 years, started on April 2012. Project supported by the Portuguese Science Foundation (FCT) in 94840 euros.

6. MobiWise: from mobile sensing to mobility advising. Period: 3 years. Started on January 2017.

7. Data Science for Non-Programmers (DataScience4NP). Project supported by the Portuguese Science Foundation (FCT). Started on June 2016.

4 Selected Recent Publications

[1] Naghmeh Ivaki, Nuno Laranjeiro, and Filipe Araujo. A survey on reliable distributed communication. *Journal of Systems and Software*, pages –, 2017.

[2] N. Ivaki, N. Laranjeiro, and F. Araujo. Design patterns for reliable one-way messaging. In *Services Computing (SCC), 2017 IEEE International Conference on*, June 2017.

[3] Henrique Madeira Frederico Cerveira, Raul Barbosa and Filipe Araujo. Recovery for Virtualized Environments. In *11th European Dependable Computing Conference (EDCC 2015)*, Paris, France, September 2015. (distinguished paper award).

[4] Serhiy Boychenko Ricardo Filipe and Filipe Araujo. Online client-side bottleneck identification on http server infrastructures. In *The Tenth International Conference on Internet and Web Applications and Services (ICIW 2015)*, ICIW '15, Brussels, Belgium, June 2015. (award paper).

[5] Filipe Araujo, Serhiy Boychenko, Raul Barbosa, and António Casimiro. Replica placement to mitigate attacks on clouds. *Journal of Internet Services and Applications*, 5(1):13, July 2014.

[6] S. Neves and F. Araujo. Representing sparse binary matrices as straight-line programs for fast matrix-vector multiplication. In *High Performance Computing and Simulation (HPCS), 2012 International Conference on*, pages 520 –526, July 2012. (runner-up paper award).

[7] Filipe Araujo, Jorge Farinha, Patricio Domingues, Gheorghe Silaghi, and Derrick Kondo. A maximum independent set approach for collusion detection in voting pools. *Journal of Parallel and Distributed Computing*, 71(10):1356–1366, October 2011.

[8] Filipe Araujo and Luís Rodrigues. Single-step creation of localized delaunay triangulations. *Wireless Networks*, 15(7):845–858, October 2009.

[9] Gheorghe Cosmin Silaghi, Filipe Araujo, Luis Moura Silva, Patricio Domingues, and Alvaro E. Arenas. Defeating colluding nodes in desktop grid computing platforms. *Journal of Grid Computing*, 7(4):555–573, December 2009.

[10] Filipe Araújo, Bernardete Ribeiro, and Luís Rodrigues. A neural network for shortest path computation. *IEEE Transactions on Neural Networks*, 12(5):1067–1073, September 2001.