

JOSÉ CAMPOS

PERSONAL INFORMATION

Born in Portugal, 29 January 1986

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WORK EXPERIENCE

- Jun 2012–Oct 2013* **Research Assistant**
- University of Porto
Faculty of
Engineering*
- Investigate the use of various generic invariants in the value and time domain, their effect on Spectrum-based Fault Localization (SFL)’s diagnostic precision, their relation with existing test oracles, and their runtime overhead, in particular, the density required or strategic placement (trading off overhead vs precision).
Reference: Prof. Rui ABREU · rui@computer.org
- Jul–Sept 2011* **Summer Trainee**
- Critical Software*
- Certification of critical aerospace software.
Reference: Eng. Ricardo BARBOSA · rbarbosa@criticalsoftware.com
- Jul–Sept 2010* **Summer Trainee**
- Caixa Mágica
Software*
- Developed an internal project for Caixa Mágica operating system, with the main goal to improve the driver of the wireless card Realtek 8192 of Magalhães 2 computer.
Reference: Prof. Paulo TREZENTOS · paulo.trezentos@caixamagica.pt
- Feb–Jul 2010* **Teaching Assistant**
- University of Porto
Faculty of
Engineering*
- Helping and guiding the students at Computer Laboratory of Master in Informatics and Computing Engineering.
Reference: Prof. Rui ABREU · rui@computer.org

EDUCATION

- 2011–2012* **University of Porto, Portugal**
- Masters in
Informatics and
Computing
Engineering*
- GPA20: 14 · School: Faculty of Engineering
Thesis: Regression Testing with GZOLTAR: Techniques for Test Suite Minimization, Selection, and Prioritization
Supervisor: Prof. Rui ABREU · rui@computer.org

PUBLICATIONS

- [1] José Campos, Rui Abreu, Fraser Gordon, and Marcelo d’Amorim.
Entropy-based Test Generation for Improved Fault Localization.
In *Proceedings of the 28th IEEE/ACM International Conference on Automated Software Engineering, ASE 2013, New York, NY, USA, 2013*. ACM.
- [2] Carlos Gouveia, José Campos, and Rui Abreu.
Using HTML5 Visualizations in Software Fault Localization.
In *Proceedings of the 1st IEEE Working Conference on Software Visualization (co-located with International Conference on Software Maintenance, ICSM), VISSOFT 2013, Washington, DC, USA, 2013*. IEEE Computer Society.
- [3] Pedro Machado, José Campos, and Rui Abreu.
MZoltar: Automatic Debugging of Android Applications.
In *Proceedings of the 1st International Workshop on Software Development Lifecycle for Mobile (co-located with European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, ESEC/FSE), DeMobile 2013, pages 9–16, New York, NY, USA, 2013*. ACM.
- [4] José Campos and Rui Abreu.
Leveraging a Constraint Solver for Minimizing Test Suites.
In *Proceedings of the The Symposium on Engineering Test Harness (co-located with QSIC), TSE-TH 2013, Washington, DC, USA, 2013*. IEEE.

- [5] José Campos and Rui Abreu.
Encoding Test Requirements as Constraints for Test Suite Minimization.
In *Proceedings of the 10th International Conference on Information Technology: New Generations*, ITNG 2013, pages 317–322, Washington, DC, USA, 2013. IEEE Computer Society.
- [6] José Campos, André Ribeiro, Alexandre Perez, and Rui Abreu.
GZoltar: An Eclipse Plug-in for Testing and Debugging.
In *Proceedings of the 27th IEEE/ACM International Conference on Automated Software Engineering*, ASE 2012, pages 378–381, New York, NY, USA, 2012. ACM.
- [7] André Ribeiro, Rui Rodrigues, Rui Abreu, and José Campos.
Integrating Interactive Visualizations of Automatic Debugging Techniques on an Integrated Development Environment.
IJICG, 3(2):42–59, 2012.

REVIEWER

2012

Journal Computer Languages, Systems & Structures
Conference International Conference on Computational Collective Intelligence Technologies and Applications (ICCCI)

CO-SUPERVISOR

2013 Automatic Debugging of Android Applications

Institution University of Porto · Faculty of Engineering
Student Pedro Machado

2013 HTML5-based Visualizations to Support Software Fault Isolation

Institution University of Porto · Faculty of Engineering
Student Carlos Gouveia

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Portuguese

Self-assessment

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken Interaction		Spoken Production		Writing	
English	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

Social skills and competences

- Ability to work independently or as part of a team
- Good oral and written communication
- Ability to listen and understand the opinion of each element of the team
- Responsibility, confidence, conscience and sincerity
- Ability to take initiative when necessary
- Determination and willingness to learn

Organizational skills and competences

- Ability to organize time and tasks
- Sense of responsibility

Technical skills and competences

- Ability to develop applications for Unix or Window
- Ability to design, implement and manage a database
- Development of projects of software engineering: specification, design and implementation
- Creation of a documentation project on Software Engineering and user documentation
- Implementation of applications based on distributed systems or artificial intelligence agents
- Experience on object oriented programming (OOP)

Driving licence(s) B