PhD Leonardo da Silva Sousa

1. Educational Background

PhD in Computer Science from the Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Brazil (Top-1 Computer Science Program in Brazil). In cooperation with: University of Southern California, Los Angeles – USA.

M.Sc. in Computer Science, March 2012 to August 2014, State University of Goiás, UFG-Goiânia-Goiás, Brazil.

B. Sc. in Computer Science, February 2008 to December 2011, State University of Mato Grosso, UFMT-Barra do Garças, Mato Grosso, Brazil.

Awards and Distinctions

* ACM Distinghished Paper Award, ICSE 2018

2. Research Interests
Software Engineering
- Software Quality
- Software Modularity
- Software Design and Architecture
- Software Testing
- Software Refactoring
- Experimental Software Engineering

3. Employments and Recent Experience

Researcher, Research Project, 2017 – Current: "Leveraging Gamification and Social Networks for Improving Prevention and Control of Zika". In cooperation with Newcastle University, UK, Newton Fund.

Researcher, Research Project, 2015 – Current:"CAReCo – Recommendation Systems for Collaborative Software Maintenance", Funding Institution: Coordenação de Aperfeiçoamento de Pessoal de Nível Superior-CAPES, Brazil.

Researcher, Research Project, 2014 – 2017: "A Software Infrastructure for Promoting Efficient Entomological Monitoring of Dengue Fever", In cooperation with Newcastle University, UK, Newton Fund.

4. Publications
Journals
- Sousa, L. S.; Mello, R.; CEDRIM, D.; Garcia, A; MISSIER, P.; Uchôa, A.; Oliveira, A.; ROMANOVSKY, Alexander. VazaDengue: An Information System for Preventing and Combating Mosquito-Borne Diseases with Social Networks. INFORMATION SYSTEMS. , v.2018, p.1-30 - 30, 2018.

Conferences
- Leonardo Sousa, Anderson Oliveira, Willian Oizumi, Simone Barbosa, Alessandro Garcia, Jaejoon Lee, Marcos Kalinoviwski, Rafael de Mello, Baldoino Neto, Roberto Oliveira, Carlos Lucena, and Rodrigo Paes, "Identifying Design Problems in the Source Code: A Grounded Theory," Proceedings of 40th International

Conference on Software Engineering (ICSE 2018), Gothenburg, Sweden, June 2018.

- Diego Cedrim, Alessandro Garcia, Melina Mongiovi, Rohit Gheyi, Leonardo Sousa, Rafael de Mello, Baldoino Fonseca, Márcio Ribeiro, Alexander Chávez. Understanding the Impact of Refactoring on Smells: A Longitudinal Study of 23 Software Projects. Proceedings of the 11th joint meeting of the ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE) and the European Software Engineering Conference (ESEC), 4-8 September 2017, Paderborn, Germany.
- Leonardo Sousa, Roberto Oliveira, Alessandro Garcia, Jaejoon Lee, Tayana Conte, Willian Oizumi, Rafael de Mello, Adriana Lopes, Natasha Valentim, Edson Oliveira, Carlos Lucena. How Do Software Developers Identify Design Problems? A Qualitative Analysis. Proceedings of the XXXI Brazilian Symposium on Software Engineering (SBES'17), Fortaleza, Brazil, September 2017.
- Willian Oizumi, Leonardo Sousa, Alessandro Garcia, Roberto Oliveira, Anderson Oliveira, O.I. Anne Benedicte Agbachi, Carlos Lucena. Revealing Design Problems in Stinky Code A Mixed-Method Study. Proceedings of the 11th Brazilian Symposium on Software Components, Architectures and Reuse (SBCARS), Fortaleza, Brazil, September 2017.
- Roberto Oliveira, Leonardo Sousa, Rafael de Mello, Natasha Valentim, Adriana Lopes, Tayana Conte, Alessandro Garcia, Edson Oliveira, Carlos Lucena. Collaborative Identification of Code Smells: A Multi-case Study. Proceedings of the 39th International Conference on Software Engineering (ICSE'17), SEIP Track, Buenos Aires, Argentina, May 2017.
- Paolo Missier, Callum McClean, Jonathan Carlton, Diego Cedrim, Leonardo Silva, Alessandro Garcia, Alexandre Plastino, and Alexander Romanovsky. Recruiting from the Network: Discovering Twitter Users Who Can Help Combat Zika Epidemics. Proceedings of the 17th International Conference on Web Engineering (ICWE), June 2017, Rome, Italy.
- Eduardo Fernandes, Gustavo Vale, Leonardo Sousa, Eduardo Figueiredo, Alessandro Garcia, Jaejoon Lee. "No Code Anomaly is an Island": Anomaly Agglomeration as Sign of Product Line Instabilities. Proceedings of the 16th International Conference on Software Reuse (ICSR 2017), Salvador, May 2017.
- Rafael de Mello, Roberto Oliveira, Leonardo Sousa, Alessandro Garcia. Towards Effective Teams for the Identification of Code Smells. Proceedings of the 10th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2017), 39th International Conference on Software Engineering (ICSE'17), Buenos Aires, Argentina, May 2017. (short paper)
- Diego Cedrim, Leonardo Sousa, Alessandro Garcia, Rohit Gheyi. Does Refactoring Improve Software Structural Quality? A Longitudinal Study of 25 Projects. XXX Brazilian Symposium on Software Engineering (SBES'16), Maringá, Brazil, September 2016.
- Willian Oizumi, Alessandro Garcia, Leonardo da Silva Sousa, Bruno Cafeo, Yixue Zhao. Code Anomalies Flock Together: Exploring Code Anomaly Agglomerations for Locating Design Problems. Proceedings of the 38th International Conference on Software Engineering (ICSE'16), Austin, Texas, May 2016.
- Igor Vieira, Leonardo da Silva Sousa, Vinícius Mendenca, Cássio Rodrigues, Auri Vincenzi. Dívida Técnica: um estudo de caso com produtos de código aberto. In: I Simpósio Brasileiro de Qualidade de Software, Salvador - Ba. SIMPÓSIO BRASILEIRO DE QUALIDADE DE SOFTWARE - SBQS'2013, 2013. , 2013. v.XII