

LUCIA

PhD Candidate in Software Systems
School of Information Systems
Singapore Management University
80 Stamford Road
Singapore 178902



Lucia.2009@smu.edu.sg

Telp.: +(65)- 82276- 216

Fax: +(65) 6828 0468

Personal Information

Surname	Lucia
First Name	Lucia
Nationality	Indonesian
Email	Lucia.2009@smu.edu.sg Kittiminh_82@yahoo.com (personal)
Personal website	http://www.mysmu.edu/phdis2009/lucia.2009/

Research Interests

I am interested in software testing, especially in automatic debugging techniques to help developers to find the source code that is responsible for program failures (fault localization techniques) and detect possible source code that can cause program failures (defects detection techniques). I am also interested in analyzing and mining data to find interesting patterns that are valuable in various aspects.

1. Fault Localization and Defects Detection
2. Software Testing
3. Software Mining
4. Data mining and analysis

Education

2009 – 2014	PhD of Information Systems (Area: Software Systems) School of Information Systems Singapore Management University, Singapore
2004 - 2005	Master of Information and Communication Technology University of Wollongong, Australia
2000 - 2004	Bachelor of Computer, Information System Bina Nusantara University, Indonesia

Working Experience

2010-2012	Teaching Assistant School of Information Systems, SMU
2005-2009	Lecturer School of Computer Science Bina Nusantara University, Indonesia
2005-2009	Operational Support Section Head Software Laboratory Center Bina Nusantara University, Indonesia
2003-2004	Database Administrator Software Laboratory Center Bina Nusantara University, Indonesia .
2000-2002	Teaching Assistant School of Computer Science Bina Nusantara University, Indonesia

Other Experience

August 2012 - May 2013	Research student Living Analytic Research Center Carnegie Mellon University, USA
2011	Program Committee Member The 9 th Working Conference on Mining Software Repositories (MSR 2012)
2009	Expert Member of Information Technology Trade ASEAN Skill Competition VII, Malaysia
2008	Expert Member of Information Technology Trade National Skill Competition, Indonesia
2007	Expert Member of Information Technology Trade National Skill Competition, Indonesia

Journal Articles (Refereed)

1. **LUCIA**, David LO, Lingxiao JIANG, Ferdiang THUNG, and Aditya BUDI. "Extended Comprehensive Study of Association Measures for Fault Localization". Journal of Software Evolution and Process. 2013.

Conference Papers (Refereed)

Fault Localization and Defects Detection

1. **LUCIA**, David LO, and XIA Xin. "Fusion Fault Localizers". Proceedings of the 29th IEEE/ACM International Conference on Automated Software Engineering (ASE). 2014. *(waiting for reviews)*
2. Ferdian THUNG, **LUCIA**, David LO, Lingxiao JIANG, Foyzur RAHMAN, and Premkumar DEVANBU. "To what extent could we detect field defects? an empirical study of false negatives in static bug finding tools". Proceedings of the 27th IEEE/ACM International Conference on Automated Software Engineering (ASE). 2012.

3. **LUCIA**, David LO, Lingxiao JIANG, Aditya BUDI. "Active Refinement of Clone Anomaly Report". The 34th International Conference of Software Engineering (ICSE). 2012.
4. **LUCIA**, Ferdian THUNG, David LO, Lingxiao JIANG. "Are Faults Localizable?" The 9th Working Conference on Mining Software Repositories (MSR). 2012.
5. Shaowei Wang, David Lo, Lingxiao Jiang, and **LUCIA**. Search-based fault localization. Proceedings of the 26th IEEE/ACM International Conference on Automated Software Engineering (ASE).2011.
6. Aditya BUDI, **LUCIA**, David LO, Lingxiao JIANG, Shaowei WANG. "Automated Detection of Likely Design Flaws in Layered Architectures". The 23rd international Conference on Software Engineering and Knowledge Engineering (SEKE). 2011.
7. **LUCIA**, David LO, Lingxiao JIANG, Aditya BUDI."Comprehensive Evaluation of Association Measures for Fault-Localization". Proceedings of the 26th IEEE International Conference on Software Maintenance (ICSM). 2010.

Security on Software Testing

1. **LUCIA**, David LO, Lingxiao JIANG, and Aditya BUDI. "kbe-anonymity: Test Data Anonymization for Evolving Programs". Proceedings of the 27th IEEE/ACM International Conference on Automated Software Engineering (ASE). 2012.
2. Aditya BUDI, David LO, Lingxiao JIANG, and **LUCIA**. "kb-Anonymity: A Model for Anonymized Behavior-Preserving Test and Debugging Data". The 32nd ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI). 2011.

Data Mining

1. David LO, Bolin DING, **LUCIA**, Jiawei HAN."Bi-directional Mining of Non-Redundant Recurrent Rules from a Sequence Database". The IEEE International Conference on International Conference on Data Engineering (ICDE). 2011.
2. David LO, Hong CHENG, **LUCIA**."Mining Closed Dyadic Discriminative Sequential Patterns". Proceedings of the 14th International Conference on Extending Database Technology (EDBT). 2011.

Disease Surveillance

1. **LUCIA**, Artur DUBRAWSKI, and Lujie CHEN. "Utility of Potential Misdiagnoses in Predicting Foodborne Outbreaks". International Society of Disease Surveillance Conference. 2013.