Papers from Projects

Several students taking the previous offerings of similar courses (527, 598DM, 598TX) published papers based on their course projects. Here are some of the papers (with the bolded names of students from the courses):

1. Qingzhou Luo, Farah Hariri, Lamya Eloussi, Darko Marinov  
   An Empirical Analysis of Flaky Tests  
   22nd ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2014), Hong Kong, November 2014

2. August Shi, Alex Gyori, Milos Gigoric, Andrey Zaytsev, Darko Marinov  
   Balancing Trade-Offs in Test-Suite Reduction  
   22nd ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2014), Hong Kong, November 2014

3. Semih Okur, Cansu Erdogan, Danny Dig  
   Converting Parallel Code from Low-Level Abstractions to Higher-Level Abstractions  

4. Vilas Jagannath, Mathew Kirn, Yu Lin, and Darko Marinov  
   Evaluating Machine-Independent Metrics for State-Space Exploration  
   5th International Conference on Software Testing, Verification, and Validation (ICST 2012), pages 320-329, Montreal, Canada, April 2012

5. Sandro Badame and Danny Dig  
   Refactoring Meets Spreadsheet Formulas  

6. Vilas Jagannath, Qingzhou Luo, and Darko Marinov  
   Change-Aware Preemption Prioritization  
   International Symposium on Software Testing and Analysis (ISSTA 2011), pages 133-143, Toronto, Canada, July 2011

   ReAssert: A Tool for Repairing Broken Unit Tests  
   International Conference on Software Engineering, Demonstrations Track (ICSE Demo 2011), pages 1010-1012, Honolulu, HI, May 2011

8. Ding Yuan, Haohui Mai, Weiwei Xiong, Lin Tan, Yuanyuan Zhou, and Shankar Pasupathy  
   SherLog: Error Diagnosis by Connecting Clues from Run-time Logs  
   15th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS 2010), pages 143-154, Pittsburgh, PA, March 2010

9. Vilas Jagannath, Yun Young Lee, Brett Daniel, and Darko Marinov  
   Reducing the costs of bounded-exhaustive testing  
   Fundamental Approaches to Software Engineering (FASE 2009), pages 171-185, York, UK, March 2009

10. Lin Tan, Xiaolan Zhang, Xiao Ma, Weiwei Xiong, and Yuanyuan Zhou  
    AutoISES: Automatically Inferring Security Specifications and Detecting Violations  

11. Danny Dig, Stas Negara, Vibhu Mohindra, Ralph Johnson  
    ReBA: A Tool for Generating Binary Adapters for Evolving Java Libraries  
    International Conference on Software Engineering, Demonstrations Track (ICSE Companion 2008), pages 963-964, Leipzig, Germany, May 2008

12. Danny Dig, Stas Negara, Vibhu Mohindra, Ralph Johnson  
    ReBA: Refactoring-aware Binary Adaptation of Evolving Libraries  
    International Conference on Software Engineering (ICSE 2008), pages 441-450, Leipzig, Germany, May 2008

13. Marcelo d’Amorim, Carlos Pacheco, Tao Xie, Darko Marinov, and Michael D. Ernst  
    An empirical comparison of automated generation and classification techniques for object-oriented unit testing  

14. Sam Kamin, Baris Aktemur, and Michael Katelman  
    Staging static analyses for program generation  
    Generative Programming and Component Engineering (GPCE 2006), pages 1-10, Portland, OR, Oct. 2006

15. Danny Dig, Can Comertoglu, Darko Marinov, and Ralph Johnson  
    Automatic Detection of Refactorings for Libraries and Frameworks  
    International Workshop on Object-Oriented Reengineering (WOOR 2005)

16. Chao Liu, Xifeng Yan, Long Fei, Jiawei Han, and Samuel P. Midkiff  
    SOBER: Statistical Model-based Bug Localization  
17. **Shan Lu, Zhenmin Li, Feng Qin, Lin Tan, Pin Zhou, and Yuanyuan Zhou**
   *BugBench: A Benchmark for Evaluating Bug Detection Tools*  
   Workshop on the Evaluation of Software Defect Detection Tools  
   (BUGW 2005)

18. **Ahmed Sobeih, Mahesh Viswanathan, Darko Marinov, and Jennifer Hou**
   *Finding Bugs in Network Protocols Using Simulation Code and Protocol-Specific Heuristics*  
   The Seventh International Conference on Formal Engineering Methods  
   (ICFEM 2005)

Note: Students should NOT buy the papers but follow the instructions 'Accessing Papers in Online Collections' from I2CS Specific Information.

Current students in the course often ask for sample work from previous offerings. Two points are important about these papers: (1) your choice of specific topics may greatly differ from these papers (and skimming through the paper abstracts, you can see that they are themselves on a range of topics), and (2) your final reports don't need to be this polished (these are not the final reports that the students submitted at the end of the course but papers that were finished later on from the projects started in the course or even started before the course but just continued during the course).