Welcome to the Brett Daniel Software Engineering Seminar (cs591se), named in the loving memory of Brett Daniel
Organized by Tao Xie and Darko Marinov since Fall 2013. Before Fall 2013, the seminar was co-organized by Danny Dig (from Spring 2011 to Spring 2013), Ralph Johnson (from inception to Spring 2011), and Darko Marinov (from inception to Fall 2012).

For seminar announcements, please subscribe to the soft-eng mailing list.

To access papers for the seminar, one could use the library proxy bookmarklet or proxy server to get free access.

Spring 2019
This semester the seminar is co-organized by Vimuth Fernando.
Spring 2019 meetings: 2124 SC (except when noted), 1pm-2:30pm, on Fridays.

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<td>Evolution-Aware Runtime Verification</td>
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<td>04/26</td>
<td>(Keyur)</td>
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Fall 2018
This semester the seminar is co-organized by Wenyu Wang.
Fall 2018 meetings: 3124 SC, 2:30pm-4pm, on Wednesdays.

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<td>Date</td>
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<td>09/12</td>
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<td>Dr. Karl Palmskog (UT Austin)</td>
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<td>Prof. Yuanfang Cai (Drexel University)</td>
<td>Software Architecture Analysis: Theory and Practice</td>
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<td>10/24</td>
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<td>Zirui Zhao</td>
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<tr>
<td>12/05</td>
<td>Prof. Tianyin Xu</td>
<td>From Software Testing to System Testing: Chaos Tests, Load Tests, and Drain Tests</td>
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### Spring 2018

This semester the seminar is co-organized by Saikat Dutta and Keyur Joshi.

Spring 2018 meetings: **4124 SC, 3:30pm-4:30pm** on Thursdays.

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<td>01/25</td>
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<td>Machine Translation Testing</td>
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<td>02/01</td>
<td>Farah Hariri</td>
<td>Are Mutants a Valid Substitute for Real Faults in Software Testing?</td>
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<td></td>
<td></td>
<td>by René Just, Darioosh Jalali, Laura Inozemtseva, Michael D. Ernst,</td>
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<td></td>
<td></td>
<td>Reid Holmes, and Gordon Fraser (FSE 2014)</td>
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<td>02/08</td>
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<td>Adversarial-Resilience Assurance for Mobile Security Systems</td>
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<td>EnerJ: Approximate Data Types for Safe and General Low-Power Computation</td>
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<td>by Adrian Sampson, Werner Dietl, Emily Fortuna, Danushen Gnanapragasam, Luis Ceze, and Dan Grossman (PLDI 2011)</td>
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<td>02/22</td>
<td>Xiaohong Chen</td>
<td>Coming to Terms with Quantified Reasoning</td>
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<td>by Laura Kovacs, Simon Robillard, and Andrei Voronkov (POPL 2017)</td>
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<td>03/01</td>
<td>Suleman Mahmood</td>
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<td>One test to rule them all</td>
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<td>by Alex Groce, Josie Holmes, and Kevin Kellar (ISSSTA 2017)</td>
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<td>03/15</td>
<td>Rami Bahsoon</td>
<td>Economics-Driven Architecting</td>
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<td>by Ivan Mistrik, Rami Bahsoon, Rick Kazman, Yuanyuan Zhang (Book)</td>
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<td>03/22</td>
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<td>03/29</td>
<td>Sara Achour</td>
<td>Time Dilation and Contraction for Programmable Analog Devices with Jaunt</td>
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<td>by Sara Achour, Martin Rinard</td>
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<td>04/05</td>
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<td>04/12</td>
<td>All</td>
<td>Research Discussion Contd.</td>
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<td>Saikat Dutta</td>
<td>DeepXplore: Automated Whitebox Testing of Deep Learning Systems</td>
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<td>by Kexin Pei, Yinzhi Cao, Junfeng Yang and Suman Jana</td>
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Fall 2017
This semester the seminar is co-organized by Zhengkai Wu.

Fall 2017 meetings: 4405 SC, 12:30 pm - 1:30 pm on Wednesdays.

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Darko Marinov
Zhengkai Wu
How to Read a Research Paper by Michael Mitzenmacher
How to Read an Engineering Research Paper by William G. Griswold
Writing Good Software Engineering Research Papers by Mary Shaw (ICSE 2003) |
| 09/06  | Eva Kühn          | Modeling, Verifying and Re-Using Coordination Generics in Collaborative Systems with the Peer Model
Guest Speaker |
| 09/13  | Zhengkai Wu       | Summer project / Working project discussion |
| 09/20  | Wei Yang          | Malware Detection in Adversarial Setting: Exploiting Feature Evolutions and Confusions in Android Apps by Wei Yang, Deguang Kong, Tao Xie and Carl A. Gunter (ACSAC 2017) |
| 09/27  | August Shi        | QTEP: Quality-Aware Test Case Prioritization by Song Wang, Jaechang Nam, and Lin Tan (ESEC/FSE 2017) |
| 10/04  | Wing Lam          | Balancing soundness and efficiency for practical testing of configurable systems by Sabrina Souto, Marcelo d’Amorim, and Rohit Gheyi (ICSE 2017)
Quals Practice |
| 10/11  | Farah Hariri      | ICST Writer's Workshop |
| 10/18  | Karl Palmskog     | iCoq: Regression Proof Selection for Large-Scale Verification Projects by Ahmet Celik, Karl Palmskog, and Milos Gligoric (ASE 2017)
Practice talk for ASE |
<p>| 10/25  | Keyur Joshi       | Triangular inequality for compiler-based strength reduction by Yufei Ding, Lin Ning, Hui Guan, and Xipeng Shen (PLDI 2017) |
| 11/01  | Everyone          | ASE 2017 |
| 11/08  | Wenyu Wang        | Discussion of ASE |</p>
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<td>Qiuhua Ding</td>
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<td>11/29</td>
<td>Saikat Dutta</td>
<td>Skeletal program enumeration for rigorous compiler testing by Qirun Zhang, Chengnian Sun, and Zhendong Su (PLDI 2017)</td>
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<td>Qiuhua Ding</td>
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<td>12/06</td>
<td>Milica Hadzi-Tanovic</td>
<td>Learning to prioritize test programs for compiler testing by Junjie Chen, Yanwei Bai, Dan Hao, Yingfei Xiong, Hongyu Zhang, and Bing Xie (ICSE 2017)</td>
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**Spring 2017**

This semester the seminar is co-organized by Angello Astorga and Wei Yang.

Spring 2017 meetings: 4124 SC, 12:00 pm - 1:00 pm on Wednesdays.

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<td>01/25</td>
<td>Roles</td>
<td>&quot;Towards Automatically Generating Descriptive Names for Unit Tests&quot;</td>
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<td>Author: Angello</td>
<td>Benwen Zhang, Emily Hill, James Clause (ASE 2016)</td>
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<td></td>
<td>Student: Zhengkai</td>
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<td>Reviewer: Milica</td>
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<td>02/01</td>
<td>Roles</td>
<td>&quot;Predictive Mutation Testing&quot;</td>
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<td></td>
<td>Author: Suleman</td>
<td>Zhang, Jie, ZiYi Wang, Lingming Zhang, Dan Hao, Lei Zhang, Shiyang Cheng, and Lu Zhang (ISSTA 2016)</td>
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<tr>
<td></td>
<td>Student: Chiao</td>
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<td>02/08</td>
<td>Roles:</td>
<td>&quot;STABILIZER: Statistically Sound Performance Evaluation&quot;</td>
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<td>Author: Vimuth</td>
<td>Charlie Curtsinger and Emery D. Berger</td>
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<td>02/15</td>
<td>Wei Yang</td>
<td>&quot;EnMobile: Entity-based Characterization and Analysis of Mobile Malware&quot;</td>
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<td>Wei Yang, Mukul Prasad, Tao Xie</td>
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<td>03/01</td>
<td>Chiao</td>
<td>Practice qual &quot;MultiSE: Multi-Path Symbolic Execution using Value Summaries&quot; Koushik Sen, George Necula, Liang Gong and Philip Wontae Choi</td>
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<td>03/08</td>
<td>Alex Gyori &amp; Company Visit</td>
<td>Efficient Incrementalized Runtime Checking of Linear Measures on Lists Alex Gyori, Pranav Garg, Edgar Pek, P. Madhusudan (ICST 2017)</td>
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<td>03/29</td>
<td>Darko Marinov</td>
<td>ICST 2017: Overview of conference talks</td>
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<td>04/05</td>
<td>Roles Author: Milica Student: Suleman</td>
<td>DroidRA: Taming Reflection to Support Whole-Program Analysis of Android Apps Li Li, Tegawendé F. Bissyandé, Damien Octeau, Jacques Klein (ISSTA 2016)</td>
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<td>04/12</td>
<td>Roles Author: Zhengkai</td>
<td>Guiding Dynamic Symbolic Execution toward Unverified Program Executions Maria Christakis Peter Müller Valentin Wüstholz (ICSE 2016)</td>
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<td>04/26</td>
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<td>05/03</td>
<td>August Shi</td>
<td>Optimizing Test Placement for Module-Level Regression Testing ICSE '17 practice talk</td>
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**Fall 2016**

This semester the seminar is co-organized by August Shi and Ping (Siwakorn) Srisakaokul.

Fall 2016 meetings: 4124 SC, 2:00 pm - 3:00 pm on Wednesdays.

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<td>10/26</td>
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<td>11/02</td>
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<td>FSE Practice Talk An Extensive Study of Static Regression Test Selection in Modern Software Evolution</td>
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<td>11/09</td>
<td>Dengfeng (Davis) Li</td>
<td>FSE-Industry Practice Talk Automated Test Input Generation for Android: Are We Really There Yet in an Industrial Case?</td>
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<td>Alex Gyori</td>
<td>FSE-Demo Practice Talk NonDex: A tool for detecting and debugging wrong assumptions on Java API specifications</td>
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### Spring 2016

This semester the seminar is co-organized by Wing Lam and Alex Gyori. You shall suggest paper candidates to read for the seminar from the list of major software engineering/programming languages/verification conferences as listed [here](#). Please volunteer for papers on [this Google sheet](#).

Spring 2016 meetings: 4124 SC, 4:00 pm - 5:00 pm on Mondays.

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<td>Darko Marinov</td>
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<td>Tao Xie</td>
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<td>02/01</td>
<td>Wajih Ul Hassan</td>
<td>Memoized Symbolic Execution</td>
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<td></td>
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<td>by Guowei Yang, Corina S. Psoeanu, and Sarfraz Khurshid (ISSTA 2012)</td>
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<tr>
<td>02/08</td>
<td>Ore Alebiosu</td>
<td>MultISE: Multi-Path Symbolic Execution using Value Summaries</td>
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<td></td>
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<td>by Koushik Sen, George Necula, Liang Gong, and Wontae Choi (FSE 2015)</td>
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<td>02/15</td>
<td>Andrei Stefanescu</td>
<td>Toward language-independent program verification</td>
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<td>02/22</td>
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<td>Statically Checking API Protocol Conformance with Mined Multi-Object Specifications</td>
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<td>02/29</td>
<td>Ali Kheradmand</td>
<td>Enforceable Security Policies</td>
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<td>by Fred B. Schneider (ACM Transactions on Information and System Security 2000)</td>
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<tr>
<td>03/14</td>
<td>Alex Gyori</td>
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<td>ICST Practice Talk</td>
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<td>04/11</td>
<td>Chiao Hsieh</td>
<td>Reusing Constraint Proofs in Program Analysis</td>
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<td></td>
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<td>by Andrea Aquino, Francesco Bianchi, Meixian Chen, Giovanni Denaro and Mauro Pezzè (ISSTA 2015)</td>
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<td>04/18</td>
<td>Yufei Chen</td>
<td>LinkDroid: Reducing Unregulated Aggregation of App Usage Behaviors</td>
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<td>Huan Feng, Kassem Fawaz, and Kang G. Shin (USENIX 2015)</td>
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<td>04/25</td>
<td>John Micco (Google)</td>
<td>Scheduling Tests for Continuous Integration at Google Scale</td>
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<td>05/02</td>
<td>Nicholas Lu</td>
<td>Declarative Mocking</td>
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<td>Hesam Samimi, Rebecca Hicks, Ari Fogel, Todd Millstein (ISSTA 2013)</td>
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**Fall 2015**

This semester the seminar is co-organized by Ali Kheradmand and Owolabi Legunsen.

Fall 2015 meetings: 4407 SC, 4:00 pm - 5:00 pm on Tuesdays.

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| 08/25  | Ali, Owolabi, Darko, Tao | Organizational Meeting  
  How to Read an Engineering Research Paper  
  William G. Griswold  
  Writing Good Software Engineering Research Papers  
  Mary Shaw (ICSE 2003)  
  Comparing and Combining Test-Suite Reduction and Regression Test Selection  
  by August Shi, Tiffany Yung, Alex Gyori, Darko Marinov (FSE 2015) |
| 08/25  | August Shi        |                                                                                                                                    |
| 09/01  | Amarin Phaosawasdi | Doing Research and Surviving Grad School  
  by Amarin Phaosawasdi                                                                                                             |
| 09/08  | Owolabi Legunsen  | Ongoing work on Evolution-Aware Monitoring-Oriented Programming (eMOP)  
  Evolution-Aware Monitoring-Oriented Programming  
  by Owolabi Legunsen, Darko Marinov, Grigore Rosu (ICSE NIER 2015)                                                                  |
| 09/15  | Mengqi Gu         | Characterizing Performance Bugs of Application-Database Interactions in Open-Source Software  
  (Ongoing work)                                                                                                                      |
| 09/22  |                   | Company visit                                                                                                                      |
| 09/29  |                   | Company visit                                                                                                                      |
| 10/06  | Alex Gyori        | Proving Programs Robust  
  by Swarat Chaudhuri, Sumit Gulwani, Roberto Lublinerman and Sara Navidpour (Venue: SC 4407)                                      |
| 10/13  | Cosmin Radoi      | Evolutionary Program Transformation                                                                                                 |
| 10/20  | Wing Lam          | When Tests Collide: Evaluating and Coping with the Impact of Test Dependence  
  by Wing Lam, Sai Zhang, Michael D. Ernst                                                                                            |
| 10/27  | Ali Kheradmand    | Maximal Sound Predictive Race Detection with Control Flow Abstraction  
  by Jeff Huang, Patrick O'Neil Meredith, Grigore Rosu (PLDI'14)                                                                     |
| 11/03  | Daejun Park       | KJS: A Complete Formal Semantics of JavaScript  
  by Daejun Park, Andrei Stefanescu, Grigore Rosu (PLDI '15)                                                                           |
| 11/10  | Wajih Ul Hassan   | KleeNet: discovering insidious interaction bugs in wireless sensor networks before deployment  
  by Sasnauskas, R., Landsiedel, O., Alizai, M. H., Weise, C., Kowalewski, S., & Wehrle, K.                                              |
<table>
<thead>
<tr>
<th>Date</th>
<th>Discussion Leader</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/17</td>
<td>Dengfeng (Davis) Li</td>
<td>Automated modularization of GUI test cases by Rahulkrishna Yandrapally, Giriprasad Sridhara and Saurabh Sinha</td>
</tr>
<tr>
<td>12/01</td>
<td>Jon Bell (Columbia University)</td>
<td>Test Dependencies and the Future of Test Acceleration</td>
</tr>
<tr>
<td>12/10</td>
<td>Lu Xiao (Drexel University)</td>
<td>Bridging the Gap between Software Architecture and Quality based on DRSpace Model</td>
</tr>
</tbody>
</table>

**Spring 2015**

This semester the seminar is co-organized by Mengqi Gu and Qi Wang.

Spring 2015 meetings: 4407 SC, 12:00 PM - 1:00 PM on Wednesdays.

<table>
<thead>
<tr>
<th>Date</th>
<th>Discussion Leader</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/28</td>
<td>Lamyaa Eloussi Mengqi Gu</td>
<td>Using Portfolio Theory for Better and More Consistent Quality, Ken Koster, ISSTA 07 A Model and Sensitivity Analysis of the Quality Economics of Defect-Detection Techniques, Stefan Wagner, ISSTA 06</td>
</tr>
<tr>
<td>02/04</td>
<td>Karl Palmskog Wei Yang</td>
<td>Network-Oblivious Programmers, Network-Aware Program Execution AppContext: Differentiating Malicious and Benign Mobile App Behavior under Contexts, ICSE 15</td>
</tr>
<tr>
<td>02/11</td>
<td>Peng Liu</td>
<td>Debugging Concurrent Programs with Guarantees</td>
</tr>
<tr>
<td>02/18</td>
<td>Farah Hariri</td>
<td>DETERMIN: Inferring Likely Deterministic Specifications of Multithreaded Programs, Jacob Burnim, Koushik Sen, ICSE10</td>
</tr>
<tr>
<td>02/25</td>
<td>August Shi</td>
<td>Unit Test Virtualization with VMVM, Jonathan Bell, Gail Kaiser, ICSE 14’</td>
</tr>
<tr>
<td>03/04</td>
<td>Aditya Varun Sharda</td>
<td>Improving oracle quality by detecting brittle assertions and unused inputs in tests FSE 14’</td>
</tr>
<tr>
<td>03/11</td>
<td>All</td>
<td>Writer’s work shop</td>
</tr>
<tr>
<td>03/18</td>
<td>Anirudh Jayakumar Diksha Arora</td>
<td>Performance Regression Testing Target Prioritization via Performance Risk Analysis Techniques for Improving Regression Testing in Continuous Integration Development Environments</td>
</tr>
<tr>
<td>04/01</td>
<td>Peyman Mahdian Blake Basset</td>
<td>An empirical study of build maintenance effort ICSE 11’ Programmers’ build errors: a case study (at google) ICSE 14’</td>
</tr>
<tr>
<td>Date</td>
<td>Discussion Leader</td>
<td>Topic</td>
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<tr>
<td>04/08</td>
<td>Fan Yang</td>
<td>Coverage is not strongly correlated with test suite effectiveness ICSE 14'</td>
</tr>
<tr>
<td>04/15</td>
<td>Sihan Li</td>
<td>Dynamic partial-order reduction for model checking software POPL 05'</td>
</tr>
</tbody>
</table>
| 04/22  | Piyush Shrivastava, Shivam Upadhyay | Testing Idempotence for Infrastructure as Code Middleware 13'  
Understanding and improving software build teams ICSE 14'      |
| 04/29  | Sanjana ChandraShekar | Robust test automation using contextual clues  
Rahulkrishna Yandrapally, Suresh Thummalapenta, Saurabh Sinha, Satish Chandra, ISSTA 14' |
| 05/06  | Amarin Phaosawasdi | Cascade: A Universal Programmer-assisted Type Qualifier Inference Tool  
Mohsen Vakilian, Amarin Phaosawasdi, Michael D. Ernst, Ralph E. Johnson, ICSE 15' |
| 05/13  | Final Week        | How to Ace an exam?                                                  |

**Fall 2014**

This semester the seminar is co-organized by Farah Hariri and Alex Gyori.

Fall 2014 meetings: 4407 SC, 5:00 PM - 6:00 PM on Wednesdays.

<table>
<thead>
<tr>
<th>Date</th>
<th>Discussion Leader</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 09/03  | All               | Organizational Meeting  
**How to Read an Engineering Research Paper**  
William G. Griswold  
**Writing Good Software Engineering Research Papers**  
Mary Shaw (ICSE 2003) |
| 09/10  | All               | Group presentations                                                  |
| 09/17  | Wei Yang          | User interactions and App security  
**Presented Paper:**  
Hidden GEMs: Automated Discovery of Access Control Vulnerabilities in Graphical User Interfaces (OakLand 2014)  
**Related Papers:**  
Peeking into Your App without Actually Seeing It: UI State Inference and Novel Android Attacks (USENIX 2014)  
Blind Recognition of Touched Keys: Attack and Countermeasures (CCS 2014) |
| 09/24  | Farah Hariri      | Fault Localization  
Extended comprehensive study of association measures for fault localization.  
**Related Papers:**  
A Survey of Software Fault Localization.  
Program Slicing, ICSE’81.  
Debugging with Dynamic Slicing and Backtracking.  
*Software: Practice and Experience* 23.6 (1993)  
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<thead>
<tr>
<th>Date</th>
<th>Discussion Leader</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/1</td>
<td>Sihan Li</td>
<td>Precondition Generation</td>
</tr>
<tr>
<td>10/08</td>
<td>Oreoluwa Alebiosu</td>
<td>Testing Data Mining Software</td>
</tr>
<tr>
<td>10/15</td>
<td>Alex Gyori</td>
<td>Program Verification</td>
</tr>
<tr>
<td>10/22</td>
<td>Yi Zhang</td>
<td>Runtime Verification</td>
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<tr>
<td></td>
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<td>Scalable Offline Monitoring. David Basin, Germano Caronni, et al. RV’14</td>
</tr>
<tr>
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<td></td>
<td>ROSRV: Runtime Verification for Robots. Jeff Huang, Cansu Erdogan, et al. RV’14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Runtime Monitoring of Temporal Logic Properties in a Platform Game. Simon Varvaressos, et al. RV’13</td>
</tr>
<tr>
<td>10/29</td>
<td>August Shi</td>
<td>Balancing Trade-Offs in Test-Suite Reduction, A. Shi, A. Gyori, M. Gilgoric, A. Zaytsev, D. Marinov, FSE’14</td>
</tr>
<tr>
<td>11/05</td>
<td>Yu Lin</td>
<td>Retrofitting Concurrency for Android Applications through Refactoring. Yu Lin, Cosmin Radoi, Danny Dig. FSE’14</td>
</tr>
<tr>
<td>11/12</td>
<td>-</td>
<td>Canceled! August will give a second practice talk for his FSE presentation at the same time, you're encouraged to attend.</td>
</tr>
<tr>
<td>11/19</td>
<td>Owolabi Legunsen</td>
<td>Writer's workshop</td>
</tr>
<tr>
<td>12/03</td>
<td>Michael Kang Lu</td>
<td>Feedback Generation for Performance Problems in Introductory Programming Assignments. Sumit Gulwani, Ivan Radicek, Florian Zuleger. FSE’14</td>
</tr>
<tr>
<td>12/10</td>
<td>Su Yang and Mengqi Gu</td>
<td>Characterizing and Detecting Performance Bugs for Smartphone Applications. Y Liu, C Xu, SC Cheung. ICSE’14</td>
</tr>
</tbody>
</table>

**Spring 2014**

This semester the seminar is co-organized by Sihan Li

Spring 2014 meetings: 4407 SC, 5:00pm – 6:00pm on Thursdays
<table>
<thead>
<tr>
<th>Date</th>
<th>Discussion Leader</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>02/13</td>
<td>Mohsen Vakilian</td>
<td>Writers’ Workshop</td>
</tr>
<tr>
<td>02/20</td>
<td>Milos Gligoric</td>
<td>Scaling Regression Testing to Large Software Systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by Alessandro Orso, Nanjuan Shi, and Mary Jean Harrold</td>
</tr>
<tr>
<td>02/27</td>
<td>Mohsen Vakilian</td>
<td>Less Is Sometimes More in the Automation of Software Evolution Tasks</td>
</tr>
<tr>
<td>03/06</td>
<td>Cansu Erdogan</td>
<td>Comparative causality: explaining the differences between executions</td>
</tr>
<tr>
<td></td>
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<td>by William N. Sumner, Xiangyu Zhang</td>
</tr>
<tr>
<td>03/20</td>
<td>Alex Gyori</td>
<td>Lightweight Control-Flow Instrumentation and Postmortem Analysis in Support of Debugging</td>
</tr>
<tr>
<td></td>
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<td>by Peter Ohmann, Ben Liblit</td>
</tr>
<tr>
<td>04/03</td>
<td>Wei Yang</td>
<td>KLEE: Unassisted and Automatic Generation of High-Coverage Tests for Complex Systems Programs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by Cristian Cadar, Daniel Dunbar, Dawson Engler</td>
</tr>
<tr>
<td>04/10</td>
<td>Blake Bassett</td>
<td>Enhancing Symbolic Execution with Veritesting</td>
</tr>
<tr>
<td></td>
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<td>by Thanassis Avgerinos, Alexandre Rebert, Sang Ki Cha, and David Brumley</td>
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<td></td>
<td></td>
<td>Symbolic PathFinder: integrating symbolic execution with model checking for Java bytecode analysis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by Corina S. Pasareanu, Willem Visser, David H. Bushnell, Jaco Geldenhuys, Peter C. Mehltiz, Neha Rungta</td>
</tr>
<tr>
<td>04/17</td>
<td>Yi Zhang</td>
<td>Calysto: Scalable and Precise Extended Static Checking</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by Domagoj Babic’c and Alan J. Hu</td>
</tr>
<tr>
<td>05/01</td>
<td>Farah Hariri</td>
<td>Proofs from Tests</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by Nels E. Beckman, Aditya V. Nori, Sriram K. Rajamani, Robert J. Simmons, Sai Deep Tetali, and Aditya V. Thakur</td>
</tr>
<tr>
<td>05/08</td>
<td>Sihan Li</td>
<td>Dynamic Analysis for Measuring Behavioral Similarity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by Sihan Li, Xusheng Xiao, Blake Bassett, Tao Xie, Nikolai Tillmann</td>
</tr>
</tbody>
</table>

**Fall 2013**

This semester the seminar is co-organized by Yu Lin.

Fall 2013 meetings: 4407 SC, 4:00pm – 5:00pm on Thursdays

The paper list for the seminar can be found here.

<table>
<thead>
<tr>
<th>Date</th>
<th>Discussion Leader</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/05</td>
<td>All</td>
<td>Organizational Meeting</td>
</tr>
<tr>
<td>09/12</td>
<td>Miryung Kim (UT Austin)</td>
<td>Automation, Analysis, and Reconstruction of Systematic Software Changes</td>
</tr>
<tr>
<td>09/19</td>
<td>Darko Marinov</td>
<td>A learning-based method for combining testing techniques</td>
</tr>
<tr>
<td></td>
<td></td>
<td>by Domenico Cotroneo, Roberto Pietranuono, and Stefano Russo (ICSE ‘13)</td>
</tr>
<tr>
<td>09/26</td>
<td>All</td>
<td>Half-day meeting to discuss research projects and collaborations</td>
</tr>
<tr>
<td>Date</td>
<td>Discussion Leader</td>
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<tr>
<td>01/17</td>
<td>Danny Dig</td>
<td>About Brett Daniel Software Engineering Seminar</td>
</tr>
<tr>
<td>01/24</td>
<td>Mihai Codoban</td>
<td>Design Lessons from the Fastest Q&amp;A Site in the West by Lena Mamykina, Bella Manoim, Manas Mittal, George Hripcsak, and Bjorn Hartmann (CHI’11)</td>
</tr>
<tr>
<td>01/31</td>
<td>Caius Brindescu</td>
<td>A Taxonomy of Change Types and its Application in Software Evolution by Steffen Lehnert, Qurat-ul-ann Farooq, and Matthias Riebisch (ECBS’12)</td>
</tr>
<tr>
<td>02/07</td>
<td>Mohsen Vakilian</td>
<td>Relm &amp; RelmInfer: Checking and Inference of Reference Immutability and Method Purity by Wei Huang, Ana Milanova, Werner Dietl, and Michael D. Ernst (OOPSLA’12)</td>
</tr>
<tr>
<td>02/14</td>
<td>Danny Dig</td>
<td>JT</td>
</tr>
<tr>
<td>02/21</td>
<td>Mohsen Vakilian</td>
<td>Writer’s Workshop</td>
</tr>
<tr>
<td>02/28</td>
<td>Claire Le Goues</td>
<td>Automatic Program Repair Using Genetic Programming</td>
</tr>
</tbody>
</table>
03/07  Samira Tasharofi  Maple: a coverage-driven testing tool for multithreaded programs by Jie Yu, Satish Narayanasamy, Cristiano Pereira, and Gilles Pokam (OOPSLA’12)

03/14  Yu Lin  PT

03/28  Yilong Li  HDD: Hierarchical Delta Debugging by Ghassan Misherghi and Zhendong Su (ICSE’06)

04/04  Hamid Jahani  Expectations, Outcomes, and Challenges Of Modern Code Review by Alberto Bacchelli and Christian Bird (ICSE’13)

04/11  Qingzhou Luo  Understanding and Detecting Real-World Performance Bugs by Guoliang Jin Linhai, Song Xiaoming Shi, Joel Scherpelz, and Shan Lu (PLDI’12)

04/18  Writer’s Workshop  Systematic Testing of Refactoring Engines on Real Software Projects

04/25  Stas Negara  Why Don’t Software Developers Use Static Analysis Tools to Find Bugs? by Brittany Johnson, Yoonki Song, Emerson Murphy-Hill, and Robert Bowdidge (ICSE’13)

## Fall 2012

This semester we will focus on COPE.

Fall 2012 meetings: 2407 SC, 2:00pm – 3:00pm on Wednesdays

<table>
<thead>
<tr>
<th>Date</th>
<th>Discussion Leader</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/29</td>
<td>Danny Dig</td>
<td>Change-oriented Programming Environment (COPE summary) by Danny Dig, Ralph Johnson, Darko Marinov, and Brian Bailey</td>
</tr>
<tr>
<td>09/05</td>
<td>Danny Dig</td>
<td>Change-oriented Programming Environment (hard-copy handed at last seminar. Get a copy from SC 3212.) by Danny Dig, Ralph Johnson, Darko Marinov, and Brian Bailey</td>
</tr>
<tr>
<td>09/12</td>
<td>Darko Marinov</td>
<td>How Do Software Engineers Understand Code Changes? - An Exploratory Study in Industry by Yida Tao, Yingnong Dang, Tao Xie, Dongmei Zhang, Sunghun Kim (FSE’12)</td>
</tr>
<tr>
<td>09/19</td>
<td>Stas Negara</td>
<td>How Often Do Unintended Inconsistencies Happen?— Deriving Modification Patterns and Detecting Overlooked Code Fragments — by Yoshiki Higo and Shinji Kusumoto (ICSM’12)</td>
</tr>
<tr>
<td>09/26</td>
<td>Federica Paci (University of Trento)</td>
<td>How Do You Know that a Security Requirements Method Actually Works? (Joint meeting with the ITI Trust and Security Seminar)</td>
</tr>
<tr>
<td>10/03</td>
<td>Mihai Codoban</td>
<td>Refactoring Edit History of Source Code by Shinpei Hayashi, Takayuki Omori, Teruyoshi Zenmyo, Katsuhisa Maruyama and Motoshi Saeki (ICSM’12)</td>
</tr>
<tr>
<td>Date</td>
<td>Presenter</td>
<td>Topic</td>
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<tr>
<td>10/10</td>
<td>Krzysztof Zienkiewicz &amp; Caius Brindescu</td>
<td>Untangling Changes by Kim Herzig, Andreas Zeller (TR Sep'11)</td>
</tr>
<tr>
<td>10/17</td>
<td>Danny Dig</td>
<td>Speculative Analysis of Integrated Development Environment Recommendations by Kvan Muslu, Yuriy Brun, Reid Holmes, Michael D. Ernst, David Notkin (OOPSLA'12)</td>
</tr>
<tr>
<td>10/24</td>
<td>Writer’s Workshop</td>
<td>A Compositional Approach to Automating Refactorings by Mohsen Vakilian, Nicholas Chen, Roshanak Zilouchian Moghaddam, Stas Negara, and Ralph E. Johnson</td>
</tr>
<tr>
<td>10/31</td>
<td>Don Batory</td>
<td>Intentional Software by Charles Simonyi, Magnus Christerson, Shane Clifford (OOPSLA'06)</td>
</tr>
<tr>
<td>11/07</td>
<td>Bilge Acun</td>
<td>History Slicing: Assisting Code-Evolution Tasks by Francisco Servant and James Jones (FSE'12)</td>
</tr>
<tr>
<td>11/14</td>
<td>Dwight Guth</td>
<td>Understanding Myths and Realities of Test-Suite Evolution by Leandro Sales Pinto, Saurabh Sinha, and Alessandro Orso (FSE'12)</td>
</tr>
<tr>
<td>11/28</td>
<td>Mohsen Vakilian</td>
<td>Improving Software Developers’ Fluency by Recommending Development Environment Commands by Emerson Murphy-Hill, Rahul Jiresal and Gail C. Murphy (FSE'12)</td>
</tr>
<tr>
<td>12/05</td>
<td>Semih Okur</td>
<td>Graph-based pattern-oriented, context-sensitive source code completion by Anh Tuan Nguyen, Tung Thanh Nguyen, Hoan Anh Nguyen Ahmed Tamrawi, Hung Viet Nguyen, Jafar Al-Kofahi, Tien N. Nguyen (ICSE'12)</td>
</tr>
<tr>
<td>12/12</td>
<td>Qingzhou Luo</td>
<td>LASE: Locating and Applying Systematic Edits by Learning from Examples by Na Meng, Miryung Kim, and Kathryn S. McKinley (ICSE'13)</td>
</tr>
</tbody>
</table>

**Spring 2012**

In Spring 2012, the seminar is co-organized by Mohsen Vakilian

Spring 2012 meetings: 3124 SC, 2:30pm – 3:30pm on Mondays

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<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/23</td>
<td>Stas Negara</td>
<td>Systematic Editing: Generating Program Transformations from an Example by Na Meng, Miryung Kim, and Kathryn S. McKinley (PLDI 2011)</td>
</tr>
<tr>
<td>01/30</td>
<td>Sandro Badame</td>
<td>Aligning Development Tools with the Way Programmers Think About Code Changes by Marat Boshernitsan, Susan L. Graham, and Marti A. Hearst (CHI 2007)</td>
</tr>
<tr>
<td>02/06</td>
<td>Writer’s Workshop</td>
<td>How Do Developers Use Parallel Libraries? by Semih Okur and Danny Dig</td>
</tr>
<tr>
<td>Date</td>
<td>Presenter</td>
<td>Topic</td>
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</tr>
</tbody>
</table>
| 02/13  | Writer's Workshop          | TransDPOR: A Novel Partial-Order Reduction Technique for Testing of Actor Programs  
                                           Samira Tasharofi, Rajesh Karmani, Steven Lauterburg, Axel Legay, Darko Marinov, and Gul Agha |
| 02/20  | Jon Tedesco                | Active Code Completion  
                                           by Cyrus Omar, YoungSeok Yoon, Thomas D. LaToza, and Brad A. Myers (To Appear in ICSE 2012) |
| 02/27  | Writer's Workshop          | Use, Disuse, and Misuse of Automated Refactorings  
                                           Mohsen Vakilian, Nicholas Chen, Stas Negara, Balaji Ambresh Rajkumar, Brian P. Bailey, Ralph E. Johnson (To Appear in ICSE 2012) |
| 03/05  | Writer's Workshop          | Understanding Integer Overflow in C/C++  
                                           by Will Dietz, Peng Li, John Regehr, and Vikram Adve (To Appear in ICSE 2012) |
| 03/12  | Michael Hind               | The Impact of Multicore Architectures on Software: Disaster or Opportunity?  
                                           (IBM Research) |
| 03/26  | Shin Hwei Tan              | Practice talk for @TComment: Testing Javadoc Comments to Detect Comment-Code Inconsistencies  
                                           by Shin Hwei Tan, Darko Marinov, Lin Tan, Gary T. Leavens (To Appear in ICST 2012) |
| 04/02  | Yu Lin                     | Evaluating Machine-Independent Metrics for State-Space Exploration  
                                           by Vilas Jagannath, Matt Kirn, Yu Lin and Darko Marinov (To Appear in ICST 2012) |
| 04/09  | Feng Qin                   | Hunting Bugs in General-Purpose and High-Performance Systems  
                                           (The Ohio State University) |
| 04/16  | Stas Negara                | Reconciling Manual and Automatic Refactoring  
                                           by Xi Ge, Quinton L. DuBose, and Emerson Murphy-Hill (To Appear in ICSE 2012) |
| 04/23  | Stas Negara                | WitchDoctor: IDE Support for Real-Time Auto-Completion of Refactorings  
                                           by Stephen R. Foster, William G. Griswold, and Sorin Lerner (To Appear in ICSE 2012) |
| 04/30  | Nipun Sehrawat             | Testing Atomicity of Composed Concurrent Operations  
                                           by Ohad Shacham, Nathan Bronson, Alex Aiken, Mooly Sagiv, Martin Vechev, and Eran Yahav (OOPSLA 2011) |

**Fall 2011**

Fall 2011 meetings: 3124 SC, 11:00 am – 12:00 pm on Wednesdays

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<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>08/24</td>
<td>All</td>
<td>Organizational Meeting (mandatory)</td>
</tr>
<tr>
<td>08/31</td>
<td>All</td>
<td>Brainstorming research questions that could be answered with CodingTracker data. Related paper: A Change-based Approach to Software Evolution by Romain Robbes and Michele Lanza (ENTCS 2007)</td>
</tr>
<tr>
<td>Date</td>
<td>Presenter</td>
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<tr>
<td>09/21</td>
<td>Samira Tasharofi</td>
<td>A Trace Simplication Technique for Effective Debugging of Concurrent Programs by Nicholas Jalbert and Koushik Sen (FSE 2010)</td>
</tr>
<tr>
<td>10/05</td>
<td>Francesco Sorrentino</td>
<td>Symbolic Predictive Analysis for Concurrent Programs by Chao Wang, Sudipta Kundu, Malay Ganai, and Aarti Gupta Testing Concurrent Programs on Relaxed Memory Models by Jacob Burnim, Koushik Sen, and Christos Stergiou</td>
</tr>
<tr>
<td>10/12</td>
<td>Mohsen Vakilian</td>
<td>The Need for Richer Refactoring Usage Data by Mohsen Vakilian, Nicholas Chen, Stas Negara, Rajkumar Balaji Ambresh, Roshanak Zilouchian Moghaddam, Ralph E. Johnson (PLATEAU 2011)</td>
</tr>
<tr>
<td>10/19</td>
<td>Nick Chen</td>
<td>Language of Language demo for OOPSLA / SPLASH</td>
</tr>
<tr>
<td>10/26</td>
<td>Writer’s Workshop</td>
<td>Fast and precise race analysis for loop-parallel Java programs by Cosmin Radoi and Danny Dig</td>
</tr>
<tr>
<td>11/09</td>
<td>Matt Kirn</td>
<td>A practical guide for using statistical tests to assess randomized algorithms in software engineering by Andrea Arcuri and Lionel Briand (ICSE 2011)</td>
</tr>
<tr>
<td>11/16</td>
<td>Yu Lin</td>
<td>Automated Atomicity-Violation Fixing by Guoliang Jin, Linhai Song, Wei Zhang, Shan Lu, and Ben Liblit (PLDI 2011)</td>
</tr>
<tr>
<td>11/30</td>
<td>Chen Fu (Accenture Labs)</td>
<td>Maintaining And Evolving GUI-Directed Test Scripts by Mark Grechanik, Qing Xie, and Chen Fu (ICSE 2009)</td>
</tr>
<tr>
<td>12/07</td>
<td>Semih Okur</td>
<td>Are Java Programmers Transitioning to Multicore? A Large Scale Study of Java FLOSS by Wesley Torres, Gustavo Pinto, Benito Fernandes, João Paulo Oliveira, Filipe Ximenes, Fernando Castor (WTMC 2011)</td>
</tr>
</tbody>
</table>

Spring 2011

Spring 2011 meetings: 3124 SC, 11:00 am – 12:00 pm on Wednesdays

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/19</td>
<td>Mohsen Vakilian</td>
<td>An Empirical Investigation into the Role of Refactorings during Software Evolution by Miryung Kim, Dongxiang Cai, Sunghun Kim (ICSE'11)</td>
</tr>
<tr>
<td>Date</td>
<td>Presenter</td>
<td>Topic</td>
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</tr>
<tr>
<td>01/26</td>
<td>Danny Dig</td>
<td>Refactoring Java programs for flexible locking, by Max Schäfer, Manu Sridharan, Julian Dolby, and Frank Tip (ICSE'11)</td>
</tr>
<tr>
<td>02/09</td>
<td>Stas Negara</td>
<td>practice talk for Inferring Ownership Transfer for Efficient Message Passing by Stas Negara, Rajesh K. Karmani, and Gul Agha (PPoPP 2011)</td>
</tr>
<tr>
<td>02/23</td>
<td>Jurand Nogiec</td>
<td>Code bubbles: rethinking the user interface paradigm of integrated development environments by Andrew Bragdon, Steven P. Reiss, Robert Zeleznik, Suman Karumuri, William Cheung, Joshua Kaplan, Christopher Coleman, Ferdi Adeputra, Joseph J. LaViola, Jr. (ICSE'10)</td>
</tr>
<tr>
<td>03/02</td>
<td>Samira, Mohsen, Stas</td>
<td>Effective Static Analysis to Find Concurrency Bugs in Java by Luo, Zhi Da, Linda Hillis, Raja Das, and Yao Qi (SCAM'10)</td>
</tr>
<tr>
<td>03/16</td>
<td>Sandro Badame</td>
<td>Refactoring Pipe-like Mashups for End-User Programmers by Kathryn T. Stolee and Sebastian Elbaum (ICSE'10)</td>
</tr>
<tr>
<td>03/30</td>
<td>Karthik Manamcheri</td>
<td>Symbolic Model Checking of Software Product Lines by Andreas Classen, Patrick Heymans, Pierre-Yves Schobbens, and Axel Legay (ICSE'11)</td>
</tr>
<tr>
<td>04/06</td>
<td>Shin Hwei Tan</td>
<td>Automatic Documentation Inference for Exceptions by Raymond Buse and Westley Weimer (ISSTA '08)</td>
</tr>
<tr>
<td>04/13</td>
<td>Cosmin Radoi</td>
<td>Effective Static Race Detection in Java (local copy here) by Mayur Naik, Alex Aiken, John Whaley (PLD'06)</td>
</tr>
<tr>
<td>04/20</td>
<td>Jeff Overbey</td>
<td>Writer's Workshop</td>
</tr>
<tr>
<td>05/04</td>
<td>Fredrik Kjolstad</td>
<td>Transformation for Class Immutability by F. Kjolstad and D. Dig and G. Acevedo and M. Snir (ICSE 2011)</td>
</tr>
</tbody>
</table>

**Fall 2010**

In Fall 2010, the seminar was co-organized by Jeff Overbey and Samira Tasharofi. Fall 2010 meetings: 3124 SC, 2:00 pm – 3:00 pm on Wednesdays. The Fall 2010 presentation schedule was/is available as an iCalendar and as an Atom (XML) feed.
<table>
<thead>
<tr>
<th>Date</th>
<th>Author</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/25</td>
<td>Mohsen Vakilian</td>
<td>Correct Refactoring of Concurrent Java Code by Max Schäfer, Julian Dolby, Manu Sridharan, Emina Torlak and Frank Tip (ECOOP 2010)</td>
</tr>
<tr>
<td>09/01</td>
<td>Jeff Overbey</td>
<td>Stepping Stones over the Refactoring Rubicon: Lightweight Language Extensions to Easily Realise Refactorings by Max Schäfer, Mathieu Verbaere, Torbjörn Ekman and Oege de Moor (ECOOP 2009)</td>
</tr>
<tr>
<td>09/08</td>
<td>Samira Tasharofi</td>
<td>Finding Race Conditions in Erlang with QuickCheck and PULSE by Koen Claessen, Michal Palka, Nicholas Smallbone, John Hughes, Hans Svensson, Thomas Arts, and Ulf Wiger (ICFP 2009)</td>
</tr>
<tr>
<td>09/15</td>
<td>Rajesh Karmani</td>
<td>Separating Functional and Parallel Correctness using Nondeterministic Sequential Specifications by Jacob Burnim, George Necula, and Koushik Sen (HotPar ’10)</td>
</tr>
<tr>
<td>09/22</td>
<td>Nicholas Chen</td>
<td>Breaking the Barriers to Successful Refactoring: Observations and Tools for Extract Method by Emerson Murphy-Hill and Andrew P. Black (ICSE 2008)</td>
</tr>
<tr>
<td>09/29</td>
<td>Vilas Jagannath</td>
<td>Regression Model Checking by Guowei Yang, Matthew B. Dwyer, Gregg Rothermel (ICSM 2009)</td>
</tr>
<tr>
<td>10/06</td>
<td>Cosmin Radoi</td>
<td>Towards a Holistic Approach to Auto-Parallelization by Georgios Tournavitis, Zheng Wang, Björn Franke, and Michael F.P. O’Boyle (PLDI ’09)</td>
</tr>
<tr>
<td>10/13</td>
<td>Nicholas Chen</td>
<td>Parallelizing Sequential Programs With Statistical Accuracy Tests by Sasa Misailovic, Deokhwan Kim and Martin Rinard (Tech Report)</td>
</tr>
<tr>
<td>10/27</td>
<td>Nicholas Chen</td>
<td>Discussion of SPLASH 2010 Events</td>
</tr>
<tr>
<td>11/10</td>
<td>Matt Kirn</td>
<td>Verifiable Functional Purity in Java by Matthew Finifter, Adrian Mettler, Naveen Sastry, and David Wagner</td>
</tr>
<tr>
<td>11/17</td>
<td>Qingzhou Luo</td>
<td>Lightweight Deterministic Multi-processor Replay of Concurrent Java Programs by Jeff Huang, Peng Liu, and Charles Zhang (FSE2010)</td>
</tr>
<tr>
<td>12/01</td>
<td>Sasa Misailovic (MIT)</td>
<td>Quality of Service Profiling</td>
</tr>
</tbody>
</table>
### Spring 2010

In Spring 2010, the seminar was co-organized by Vilas Jagannath

Spring 2010 meetings: 4124 SC, 4:00 pm – 5:00 pm on Fridays

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/08</td>
<td>Charlie Meyer</td>
<td>Practical and Effective Symbolic Analysis for Buffer Overflow Detection by Lian Li, Cristina Cifuentes, Nathan Keynes (FSE 2010)</td>
</tr>
<tr>
<td>01/22</td>
<td>Everyone</td>
<td>Organizational Meeting (mandatory)</td>
</tr>
<tr>
<td>01/29</td>
<td>Nicholas Chen</td>
<td>Flapjax: A Programming Language for Ajax Applications by Leo Meyerovich, Arjun Guha, Jacob Baskin, Greg Cooper, Michael Greenberg, Aleks Brotman and Shriram Krishnamurthi (OOPSLA 2009)</td>
</tr>
<tr>
<td>02/05</td>
<td>Danny Dig</td>
<td>Job Practice Talk</td>
</tr>
<tr>
<td>02/19</td>
<td>Brett Daniel</td>
<td>On the Interplay Between Software Testing and Evolution and its Effect on Program Comprehension by Leon Moonen, Arie van Deursen, Andy Zaidman, and Magiel Bruntink</td>
</tr>
<tr>
<td>02/26</td>
<td>Edgar Pek</td>
<td>Safe and Timely Dynamic Updates for Multithreaded Programs by Iulian Neamtiu and Michael Hicks</td>
</tr>
<tr>
<td>03/05</td>
<td>Samira Tasharofi</td>
<td>Is transactional programming actually easier?</td>
</tr>
<tr>
<td>03/12</td>
<td>Rajesh Karmani</td>
<td>Evaluating Ordering Heuristics for Dynamic Partial-Order Reduction Techniques</td>
</tr>
<tr>
<td>03/19</td>
<td>Writer’s Workshop for OOPSLA submission</td>
<td>Immutator: Making Classes Immutable, by Fredrik Kjolstad, Gabriel Avecedo, Danny Dig</td>
</tr>
<tr>
<td>03/26</td>
<td>Wolfram Schulte (Microsoft Research)</td>
<td>SPUR: A Trace-Based JIT Compiler for CIL by Manuel Fahndrich, Francesco Logozzo, Wolfram Schulte, Nikolai Tillmann and Herman Venter</td>
</tr>
<tr>
<td>04/02</td>
<td>Vilas Jagannath</td>
<td>MuTMuT: Efficient Exploration for Mutation Testing of Multithreaded Code</td>
</tr>
<tr>
<td>04/06</td>
<td>Swarup Kumar Sahoo</td>
<td>An Empirical Study of Reported Bugs in Server Software with Implications for Automated Bug Diagnosis by Swarup K Sahoo, John Criswel and Vikram S. Adve</td>
</tr>
<tr>
<td>04/16</td>
<td>Choonghwan Lee</td>
<td>Mining Exception-Handling Rules as Sequence Association Rules by Suresh Thummalaapenta and Tao Xie</td>
</tr>
<tr>
<td>04/23</td>
<td>Milos Gligoric</td>
<td>Test Generation through Programming in UDITA by Milos Gligoric, Tihomir Gvero, Vilas Jagannath, Sarfraz Khurshid, Viktor Kuncak, and Darko Marinov</td>
</tr>
<tr>
<td>04/30</td>
<td>Andrei Stefanescu</td>
<td>jStar: Towards Practical Verification for Java by D. Distefano and M. Parkinson</td>
</tr>
</tbody>
</table>
# Fall 2009

In Fall 2009, the seminar was co-organized by Steven Lauterburg
Fall 2009 meetings: 3124 SC, 3:30 pm – 4:30 pm on Wednesdays

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 08/26  | no meeting      | How to Read an Engineering Research Paper  
              by William G. Griswold  
Writing Good Software Engineering  
Research Papers  
by Mary Shaw (ICSE 2003) |
| 09/02  | Brett Daniel    | Writer’s workshop on UDITA: Unified Declarative and Imperative Test Abstractions           |
| 09/09  | Danny Dig       | ReLooper: Refactoring for Loop Parallelism  
by Danny Dig, Cosmin Radoi, Mihai Tarce,  
Marius Minea and Ralph Johnson |
| 09/16  | Samira Tasharofi| Resources, Concurrency, and Local Reasoning  
by Peter W. O’Hearn          |
| 09/23  | Todd Millstein  | Fine-Grained Access Control with Object-Sensitive Roles  
by Jeffrey Fischer, Daniel Marino, Rupak Majumdar and Todd Millstein (ECOOP 2009) |
| 09/30  | Jeff Overbey    | Prelim practice talk  
New Techniques for the Rapid Construction of Refactoring Engines |
| 10/07  | Fredrik Kjolstad| Refactoring Feature Modules  
by Martin Kuhlemann, Don Batory and Sven Apel (ICSR 2009) |
| 10/14  | Milos Gligoric  | CodeBricks: Code Fragments as Building Blocks  
by Giuseppe Attardi, Antonio Cisternino and Andrew Kennedy (PEPM 2003) |
| 10/21  | Damion Mitchell | The secret life of bugs: Going past the errors and omissions in software repositories  
by Jorge Aranda and Gina Venolia (ICSE 2009) |
| 10/28  | George Candea   | Deadlock Immunity: Enabling Systems To  
Defend Against Deadlocks  
by Horatiu Jula, Daniel Tralamazza, Cristian Zamfir, George Candea (OSDI 2008) |
| 11/04  | Brett Daniel    | ASE 2009 practice talks  
ReAssert: Suggesting Repairs for Broken Unit Tests  
by Brett Daniel, Vilas Jagannath, Danny Dig, and Darko Marinov |
|        | Mohsen Vakilian | Inferring Method Effect Summaries for Nested Heap Regions  
by Mohsen Vakilian, Danny Dig, Robert Bochino, Jeff Overbey, Vikram Adve, Ralph Johnson |
### Spring 2009

In Spring 2009, the seminar was co-organized by Danny Dig

Spring 2009 meetings: 3102 SC, 11:00 am – 12:00 pm on Wednesdays

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/21</td>
<td>Danny Dig</td>
<td>How We Refactor, and How We Know It by Emerson Murphy-Hill, Chris Parnin, and Andrew P. Black (ICSE 2009)</td>
</tr>
<tr>
<td>01/28</td>
<td>Nick Chen</td>
<td>Holmes: Effective Statistical Debugging via Efficient Path Profiling by Trishul Chilimbi, Ben Liblit, Krishna Mehra, Aditya Nori, Kapil Vaswani (ICSE 2009)</td>
</tr>
<tr>
<td>02/04</td>
<td>Nick Chen</td>
<td>Lessons Learned at 208K: Towards Debugging Millions of Cores by Gregory L. Lee, Dong H. Ahn, Dorian C. Arnold, Bronis R. de Supinski, Matthew Legendre, Barton P. Miller, and Ben Liblit (SC 2008)</td>
</tr>
<tr>
<td>02/18</td>
<td>Lin Tan</td>
<td>Leveraging Code Comments to Improve Software Reliability (practice talk)</td>
</tr>
<tr>
<td>02/25</td>
<td>Munawar Hafiz</td>
<td>Security on Demand (practice talk)</td>
</tr>
<tr>
<td>03/04</td>
<td>Feng Chen</td>
<td>Analyzing Execution Traces for Reliable Software (practice talk)</td>
</tr>
<tr>
<td>03/11</td>
<td>Vilas Jagannath</td>
<td>JavaCOP: Declarative Pluggable Types for Java by Shane Markstrum, Daniel Marino, Matthew Esquivel, Todd Millstein, Chris Andreae, and James Noble (submitted) (SEE EMAIL FOR PAPER)</td>
</tr>
<tr>
<td>03/18</td>
<td>Danny Dig</td>
<td>writer's workshop on Deterministic Parallel Java submission</td>
</tr>
<tr>
<td>04/01</td>
<td>Nick Bray</td>
<td>PyStream: Python on the GPU</td>
</tr>
<tr>
<td>04/08</td>
<td>joint seminar with DPJ and DeNovo groups</td>
<td>Optimistic parallelism requires abstractions by Kulkarni et al. (PLDI’07)</td>
</tr>
<tr>
<td>04/15</td>
<td></td>
<td>SE Qual Discussion</td>
</tr>
<tr>
<td>Date</td>
<td>Presenter</td>
<td>Topic</td>
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<tr>
<td>04/22</td>
<td>Yun Young Lee</td>
<td>Taint-Based Directed Whitebox Fuzzing by Vijay Ganesh, Tim Leek, Martin Rinard (ICSE 2009)</td>
</tr>
<tr>
<td>04/29</td>
<td>Mohsen Vakilian</td>
<td>Inferring Method Effect Summaries (writer's workshop for ASE submission)</td>
</tr>
<tr>
<td>05/06</td>
<td>Tom Ball</td>
<td>Program Analysis 2.0</td>
</tr>
</tbody>
</table>

**Fall 2008**

Fall 2008 meetings: 4124 SC, 1:00 pm – 2:00 pm on Wednesdays

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/03</td>
<td>Patrick Meredith</td>
<td>Efficient Monitoring of Parametric Context-Free Patterns by Patrick Meredith, Dongyun Jin, Feng Chen and Grigore Rosu (ASE 2008)</td>
</tr>
<tr>
<td>10/01</td>
<td>Baris Aktemur</td>
<td>Obtaining a staged type system (almost) for free</td>
</tr>
<tr>
<td>10/08</td>
<td>Danny Dig</td>
<td>Concurrency Features in Java</td>
</tr>
<tr>
<td>10/22</td>
<td>Darko Marinov</td>
<td>Duplicate Bug Reports Considered Harmful... Really? by Nicolas Bettenburg, Rahul Premraj, Thomas Zimmermann, Sung hun Kim (ICSM 2008)</td>
</tr>
<tr>
<td>10/29</td>
<td>Gary Sevtsky from IBM Research</td>
<td>Efficient Memory Usage in Java: Current Practices and Challenges</td>
</tr>
<tr>
<td>11/05</td>
<td>OOPSLA attendees</td>
<td>Overview of OOPSLA 2008</td>
</tr>
<tr>
<td>11/12</td>
<td>Yun Young Lee</td>
<td>Reducing wasted development time via continuous testing by David Saff, Michael D. Ernst (ISSRE 2003)</td>
</tr>
<tr>
<td>11/19</td>
<td>Samira Tasharofi</td>
<td>Indexing Noncrashing Failures: A Dynamic Program Slicing-Based Approach by Chao Liu, Xiangyu Zhang, Jiawei Han, Yu Zhang, Bharat K. Bhargava (ICSM 2007)</td>
</tr>
<tr>
<td>12/03</td>
<td>Rajesh K. Karmani</td>
<td>ActorFoundry: A Java-based library for Actor programming</td>
</tr>
<tr>
<td>12/10</td>
<td>Stas Negara</td>
<td>Binary refactoring: improving code behind the scenes by Eli Tilevich and Yannis Smaragdakis (ICSE 2005)</td>
</tr>
</tbody>
</table>
### Spring 2008

In Spring 2008, the seminar was merged with the Formal Methods seminar and co-organized by Madhu Parthasarathy, Grigore Rosu, and Mahesh Viswanathan

**Spring 2008 meetings:** 4124 SC, 3-4pm on Wednesdays

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/25</td>
<td>Robby Findler</td>
<td>DrScheme, why systems building matters</td>
</tr>
<tr>
<td>01/30</td>
<td>Shan Lu</td>
<td>Fighting Concurrency Bugs</td>
</tr>
<tr>
<td>02/06</td>
<td>Feng Chen</td>
<td>Monitoring Based Programming and Analysis</td>
</tr>
<tr>
<td>02/13</td>
<td>Joe Tucek</td>
<td>Automatically dealing with failures at the end user site</td>
</tr>
<tr>
<td>02/20</td>
<td>Shobha Vasudevan</td>
<td>Informal Tutorial on Hardware Verification</td>
</tr>
<tr>
<td>02/27</td>
<td>Brett Daniel</td>
<td>Mirrors: Design Principles for Meta-level Facilities of Object-Oriented Programming Languages by Gilad Bracha and David Ungar (OOPSLA '04)</td>
</tr>
<tr>
<td>03/05</td>
<td>Justin King</td>
<td>Towards a Taxonomy of Software Change</td>
</tr>
<tr>
<td>03/12</td>
<td>Sameer Sundresh</td>
<td>Language-level virtualization</td>
</tr>
<tr>
<td>03/26</td>
<td>Gennaro Parlato</td>
<td>Context-Bounded Analysis of Concurrent Queue Systems by Salvatore La Torre, P. Madhusudan, and Gennaro Parlato (TACAS 2008)</td>
</tr>
<tr>
<td>04/02</td>
<td>Ahmed Sobeih</td>
<td>Verification of Evolving Simulation Models of Network Protocols Using Incremental State Space Exploration</td>
</tr>
<tr>
<td>04/09</td>
<td>Joe Hendrix</td>
<td>What Did I Forget? - Decision Procedures for Identifying Incomplete Specifications</td>
</tr>
<tr>
<td>04/16</td>
<td>Mohsen Vakilian</td>
<td>Change Distilling: Tree Differencing for Fine-Grained Source Code Change Extraction by Beat Fluri, Michael Wuersch, Martin Pinzger, and Harald C. Gall (TSE 2007)</td>
</tr>
<tr>
<td>04/23</td>
<td>Steven Lauterburg</td>
<td>Incremental State-Space Exploration for Programs with Dynamically Allocated Data by Steven Lauterburg, Ahmed Sobeih, Darko Marinov, Mahesh Viswanathan (ICSE 2008)</td>
</tr>
</tbody>
</table>

### Fall 2007

**Fall 2007 meetings:** 4124 SC, 2:00 pm – 3:00 pm on Fridays

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
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<td>Topic</td>
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</tbody>
</table>
| 09/07  | writer's workshop (read & annotate paper before coming) | ReBA: Refactoring-aware Binary Adapter for Component-based Applications  
D. Dig, S. Negara, V. Mohindra, and R. Johnson (to be submitted to ICSE 2008) |
| 09/14  | Binh Le         | Beyond Refactoring: A Framework for Modular Maintenance of Crosscutting Design Idioms  
Macneil Shonle, William G. Griswold, and Sorin Lerner (ESEC/FSE 2007) |
| 09/28  | Danny Dig (practice talk for PhD defense) | Automated Upgrade of Component-Based Applications  
suggested reading: ReBA: Refactoring-aware Binary Adapter for Component-based Applications |
| 10/05  | Justin King     | The NMI Build & Test Laboratory: Continuous Integration Framework for Distributed Computing Software  
A. Pavlo, P. Couvares, R. Gietzel, A. Karp, I. Alderman, M. Livny, and C. Bacon (LISA '06) |
| 10/12  | Tanya Crenshaw  | Estimating Software Component Reliability by Leveraging Architectural Models  
by Roshanak Roshandel, Somo Banerjee, Leslie Cheung, Nenad Medvidovic, Leana Golubchik (ICSE 2006) |
| 10/19  | Baris Aktemur   | Library Specialization Problem  
(work in progress) |
| 10/26  | Steven Lauterburg | Iterative Context Bounding for Systematic Testing of Multithreaded Programs  
by Madan Musuvathi and Shaz Qadeer (PLDI '07) |
| 11/02  | Mohsen Vakilian | Aligning Development Tools with the Way Programmers Think About Code Changes  
by Marat Boshernitsan, Susan L. Graham, and Marti A. Hearst (CHI 2007) |
| 11/09  | Vilas Shekhar Bangalore Jagannath | Context-Based Detection of Clone-Related Bugs  
by Lingxiao Jiang, Zhendong Su and Edwin Chiu (ESEC/FSE 2007) |
| 11/16  | Roshanak Zilouchian | Heuristic Ranking of Java Program Edits for Fault Localization  
by Xiaoxia Ren and Barbara G. Ryder (ISSTA'07) |
| 11/30  | Choonghwan Lee  | Practical Memory Leak Detection using Guarded Value-Flow Analysis  
by Sigmund Cherem, Lonnie Princehouse and Radu Rugina (PLDI'07) |
| 12/06  | Marat Boshernitsan from Agitar | Trends and Techniques in Unit Testing: From Daikon to Agitator and Beyond |

**Spring 2007**

Spring 2007 meetings: 4124 SC, 1:00 – 2:00 pm on Fridays

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Topic</th>
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| 02/02  | Ralph Johnson   | Semantic patches for documenting and automating collateral evolutions in Linux device drivers  
Y. Padioleau, R. Hansen, J. Lawall, and G. Muller (PLOS 2006) |
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<td>02/09</td>
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