

Meiyappan Nagappan

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Education

- **Assistant Professor, Software Engineering Department, Rochester Institute of Technology, Rochester, NY (Current)**
- **Post Doctoral Fellow, Software Analysis and Intelligence Laboratory, Queen's University, Kingston, ON (Oct 2014)**
 Research Area: *Empirical Software Engineering using Ultra Large Repositories*
 Supervisor: Dr. Ahmed E. Hassan
- **Doctor of Philosophy (PhD), Computer Science, North Carolina State University, Raleigh, NC (May 2011).**
 Research Area: *Framework for Analyzing Log Files from a Cloud Computing Infrastructure*
 Advisor: Dr. Mladen A. Vouk
- **Master of Science (M.S.), Computer Science, North Carolina State University, Raleigh, NC (May 2008).**
 Qualifiers Title: *A Model for Sharing of Confidential Provenance Information in a Query Based System*
 Advisor: Dr. Mladen A. Vouk
 GPA: 4.0/4.0
- **Bachelor of Engineering (B.E.), Computer Science, Anna University, Madras, India (May 2006).**
 Undergraduate Project: *Dynamic Scheduling of Tasks in a Multiprocessor Environment*
 Graduated *First Class with Distinction.*

Industrial Research Experience

Research Collaborator - BlackBerry Software Analysis and Intelligence Laboratory, Queen's University, Kingston, ON	May 2011 - Oct 2014
Research Assistant - Scientific Data Management Center North Carolina State University, Raleigh, NC	May 2007 - May 2011
Research Intern - Microsoft Research Cambridge, UK	Jun 2010 - Aug 2010
Research Intern - ABB US Corporate Research Center Raleigh, NC	Jan 2010 - May 2010
Research Intern - Lawrence Berkeley National Labs Berkeley, CA	May 2008 - Aug 2008
Summer Project - Chennai Container Terminal Limited Chennai, India	Apr 2004 - Jun 2004

Publications

Journal Publications (2014 Impact factors in brackets)

14. Shane McIntosh, Bram Adams, **Meiyappan Nagappan**, Ahmed E. Hassan, "Identifying and Understanding Header File Hotspots in C/C++ Build Processes", *Automated Software Engineering Journal (1.053)*, Accepted June 2015.
13. Israel J. Mojica Ruiz, **Meiyappan Nagappan**, Bram Adams, Thorsten Berger, Steffen Dienst, Ahmed E. Hassan, "An Examination of the Current Rating System used in Mobile App Stores", *IEEE Software (1.053)*, Accepted Jan 2015.
12. Hammad Khalid, **Meiyappan Nagappan**, Ahmed E. Hassan, "Examining the Relationship between FindBugs Warnings and End User Ratings: A Case Study On 10,000 Android Apps", *IEEE Software (1.053)*, Accepted Nov 2014.
11. Hadi Hemmati, **Meiyappan Nagappan**, Ahmed E. Hassan, "Investigating the Effect of 'Defect Co-fix' on Quality Assurance Resource Allocation: A Search-based Approach", *Journal of Systems and Software*, Accepted November 2014.
10. Mark D. Syer, **Meiyappan Nagappan**, Bram Adams and Ahmed E. Hassan, "Replicating and Re-evaluating the Theory of Relative Defect-Proneness", *IEEE Transactions on Software Engineering (1.614)*, Accepted September 2014.
9. Shane McIntosh, **Meiyappan Nagappan**, Bram Adams, Audris Mockus, Ahmed E. Hassan, "Large-Scale Empirical Study of the Relationship Between Build Technology and Build Maintenance", *Empirical Software Engineering (2.161)*, Accepted May 2014.
8. Israel J. Mojica Ruiz, **Meiyappan Nagappan**, Thorsten Berger, Bram Adams, Steffen Dienst, Ahmed E. Hassan, "On Ad Library Updates in Android Apps", *IEEE Software (1.053)*, Accepted May 2014.
7. Israel J. Mojica Ruiz, **Meiyappan Nagappan**, Bram Adams, Thorsten Berger, Steffen Dienst, Ahmed E. Hassan, "An Empirical Study on the Relationship between the Number of Ad Libraries in an App and its Rating", *IEEE Software (1.053)*, Accepted May 2014.
6. Mark D. Syer, **Meiyappan Nagappan**, Bram Adams, Ahmed E. Hassan, "Studying the Relationship Between Source Code Quality and Mobile Platform Dependence", *Springer Software Quality Journal (1.143)*, Accepted April 2014.
5. Hammad Khalid, Emad Shihab, **Meiyappan Nagappan**, Ahmed E. Hassan, "What Do Mobile App Users Complain About? A Study on Free iOS Apps", *IEEE Software (1.053)*, Accepted March 2014.
4. Nicolas Bettenburg, **Meiyappan Nagappan**, Ahmed E. Hassan, "Towards Improving Statistical Modelling of Software Engineering Data: Think Locally, Act Globally!", *Empirical Software Engineering (2.161)*, Accepted November 2013.
3. Israel J. Mojica, Bram Adams, **Meiyappan Nagappan**, Steffen Dienst, Thorsten Berger, Ahmed E. Hassan, "A Large Scale Empirical Study on Software Reuse in Mobile Apps", *IEEE Software Special Issue on Next Generation Mobile Computing (1.053)*, Accepted November 2013.
2. Stephen W. Thomas, **Meiyappan Nagappan**, Dorothea Blostein, Ahmed E. Hassan, "The Impact of Classifier Configuration and Classifier Combination on Bug Localization", *IEEE Transactions on Software Engineering (1.614)*, Vol 39, Issue 10, October 2013. Pages 1427-1443.

1. Weiyi Shang, **Meiyappan Nagappan**, Ahmed E. Hassan, “Studying the Relationship between Logging Characteristics and the Code Quality of Platform Software”, *Empirical Software Engineering* (2.161), Published Online September 08 2013.

Conference Publications

21. Yuan Tian, **Meiyappan Nagappan**, David Lo, and Ahmed E. Hassan. “What Are the Characteristics of High-Rated Apps? A Case Study on Free Android Applications”, In Proceedings of the *31st IEEE International Conference on Software Maintenance and Evolution (ICSME 2015)*, Bremen, Germany, Sept 29 - Oct 1, 2015. (Acceptance Rate: 22%).
20. **Meiyappan Nagappan**, Romain Robbes, Yasutaka Kamei, Eric Tanter, Shane McIntosh, Audris Mockus, and Ahmed E. Hassan, “An Empirical Study of Goto in C Code from GitHub Repositories”, In Proceedings of the *9th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2015)*, Bergamo, Italy, Aug 30 - Sept 04, 2015. (Acceptance Rate: 25.4%).
19. Jiaping Gui, Stuart Mcilroy, **Meiyappan Nagappan**, William G.J. Halfond, “Truth in Advertising: The Hidden Cost of Mobile Ads for Software Developers”, In the proceedings of the *37th International Conference on Software Engineering (ICSE 2015)*, Florence, Italy, May 16 - 24, 2015. (Acceptance Rate: 19%).
18. (**ACM SIGSOFT Distinguished Paper Award and Best Paper Award**) Felivel Camilo, Andrew Meneely and **Meiyappan Nagappan**, “Do Bugs Foreshadow Vulnerabilities? A Study of the Chromium Project”, In the proceedings of the *12th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2015)*, Florence, Italy, May 16 - 17, 2015. (Acceptance Rate: 30%).
17. Baishakhi Ray, **Meiyappan Nagappan**, Christian Bird, Nachiappan Nagappan and Thomas Zimmermann, “The Uniqueness of Changes: Characteristics and Applications”, In the proceedings of the *12th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2015)*, Florence, Italy, May 16 - 17, 2015. (Acceptance Rate: 30%).
16. Hammad Khalid, **Meiyappan Nagappan**, Emad Shihab, Ahmed E. Hassan, “Prioritizing The Devices To Test Your App On: A Case Study Of Android Game Apps”, Published in the proceedings of the *22nd ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2014)*, Hong Kong, China, November 16 - 21, 2014. (Acceptance Rate: 22%).
15. Weiyi Shang, **Meiyappan Nagappan**, Ahmed E. Hassan, Zhen Ming Jiang, “Understanding Log Lines Using Development Knowledge”, Published in the proceedings of the *30th IEEE International Conference on Software Maintenance and Evolution (ICSME 2014)*, Victoria, Canada, October 1 - 3, 2014. (Acceptance Rate: 19%).
14. Shane Mcintosh, Bram Adams, **Meiyappan Nagappan**, Ahmed E. Hassan, “Mining Co-Change Information to Understand when Build Changes are Necessary”, Published in the proceedings of the *30th IEEE International Conference on Software Maintenance and Evolution (ICSME 2014)*, Victoria, Canada, October 1 - 3, 2014. (Acceptance Rate: 19%).
13. Tse-Hsun Chen, **Meiyappan Nagappan**, Emad Shihab, Ahmed E. Hassan, “An Empirical Study of Dormant Bugs”, In the proceedings of the *11th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2014)*, Hyderabad, India, May 31 - June 1, 2014. (Acceptance Rate: 34%).
12. Thanh H. D. Nguyen, **Meiyappan Nagappan**, Ahmed E. Hassan, Mohamed Nasser, Parminder Flora, “An Industrial Case Study of Automatically Identifying Performance Regression-Causes”, In the proceedings of the *Practice Track at the 11th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2014)*, Hyderabad, India, May 31 - June 1, 2014. (Acceptance Rate: 34%).

11. Mark D. Syer, Zhen Ming Jiang, **Meiyappan Nagappan**, Ahmed E. Hassan, Mohamed Nasser, Parminder Flora, “Continuous Validation of Load Test Suites”, In the proceedings of the *5th ACM/SPEC International Conference on Performance Engineering (ICPE 2014)*, Dublin, Ireland, March 23 - 26, 2014. (Acceptance Rate: 30%).
10. Mark D. Syer, **Meiyappan Nagappan**, Bram Adams, Ahmed E. Hassan, “Revisiting Prior Empirical Findings For Mobile Apps: An Empirical Case Study on the 15 Most Popular Open Source Android Apps”, In the proceedings of the *23rd International Conference hosted by the Centre for Advanced Studies Research, IBM Canada Software Laboratory (CASCON 2013)*, Markham, Canada, November 18-20, 2013. (Acceptance Rate: 36%).
9. Mark D. Syer, Zhen Ming Jiang, **Meiyappan Nagappan**, Ahmed E. Hassan, Mohamed Nasser, Parminder Flora, “Leveraging Performance Counters and Execution Logs to Diagnose Memory-Related Performance Issues”, In the proceedings of the *29th IEEE International Conference on Software Maintenance (ICSM 2013)*, Eindhoven, The Netherlands, September 24-26, 2013. (Acceptance Rate: 22%).
8. Seyyed Ehsan Salamati Taba, Foutse Khomh, Ying Zou, Ahmed E. Hassan, **Meiyappan Nagappan**, “Predicting Bugs Using Antipatterns”, In the proceedings of the *29th IEEE International Conference on Software Maintenance (ICSM 2013)*, Eindhoven, The Netherlands, September 24-26, 2013. (Acceptance Rate: 22%).
7. **Meiyappan Nagappan**, Thomas Zimmermann, Christian Bird, “Diversity in Software Engineering Research”, In the proceedings of the *9th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2013)*, Saint Petersburg, Russia, August 21-23, 2013. Pages 466-476. (Acceptance Rate: 20%).
6. Masateru Tsunoda, Koji Toda, Kyohei Fushida, Yasutaka Kamei, **Meiyappan Nagappan**, Naoyasu Ubayashi, “Revisiting Software Development Effort Estimation Based on Early Phase Development Activities”, In the proceedings of the *10th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2013)*, San Francisco, CA, USA, May 18-19, 2013. Pages 429-438. (Acceptance Rate: 38%).
5. Roman Suvorov, Bram Adams, **Meiyappan Nagappan**, Ahmed E. Hassan, Ying Zou, “An Empirical Study of Build System Migrations in Practice: Case Studies on KDE and the Linux Kernel”, In the proceedings of the *28th IEEE International Conference on Software Maintenance (ICSM 2012)*, Riva del Garda, Trento, Italy, September 25-27, 2012. Pages 160-169. (Acceptance Rate: 25%).
4. Israel J. Mojica Ruiz, **Meiyappan Nagappan**, Bram Adams, Ahmed E. Hassan, “Understanding Reuse in the Android Market”, In the proceedings of the *20th IEEE International Conference on Program Comprehension (ICPC 2012)*, Passau, Germany, June 11-13, 2012. Pages 113-122. (Acceptance Rate: 41%).
3. (**Best Paper Award**) Nicolas Bettenburg, **Meiyappan Nagappan**, Ahmed E. Hassan, “Think Locally, Act Globally: Improving Defect and Effort Prediction Models”, In the proceedings of the *9th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2012)*, Zurich, Switzerland. June 2-3, 2012. Pages 60-69. (Acceptance Rate: 28%).
2. Tse-Hsun Chen, Stephen W. Thomas, **Meiyappan Nagappan**, Ahmed E. Hassan, “Explaining Software Defects Using Topic Models”, In the proceedings of the *9th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2012)*, Zurich, Switzerland. June 2-3, 2012. Pages 189-198. (Acceptance Rate: 28%).
1. **Meiyappan Nagappan**, Kesheng Wu, Mladen A. Vouk, “Efficiently Extracting Operational Profiles from Execution Logs using Suffix Arrays”, In the proceedings of the *20th IEEE International Symposium on Software Reliability Engineering (ISSRE 2009)*, Mysuru, India. November 16-19, 2009. Pages 41-50. (Acceptance Rate: 25%).

Other Refereed Publications

10. Catherine Ramirez, **Meiyappan Nagappan**, Mehdi Mirakhorli, “Studying the Impact of Evolution in R Libraries on Software Engineering Research”, *In the proceedings of The first International Workshop on Software Analytics (SWAN 2015)*, Montreal, Canada, March 2, 2015. (Acceptance Rate: 73%).
9. Lucas Layman, Madeline Diep, **Meiyappan Nagappan**, Janice Singer, Robert Deline, Gina Venolia, “Debugging Revisited: Toward Understanding the Debugging Needs of Contemporary Software Developers”, *In the proceedings of the 7th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM 2013) - Industrial Track*, Baltimore, Maryland, October 10-11, 2013. (Acceptance Rate: 45%).
8. **Meiyappan Nagappan**, Brendan Murphy, Mladen A. Vouk, “Which Code Construct Metrics are Symptoms of Post Release Failures?”, *In the proceedings of the 2nd International Workshop on Emerging Trends in Software Metrics (WETSoM 2011)*, Waikiki, Honolulu, HI, May 24, 2011. Pages 65-68. (Acceptance Rate: 57%).
7. **Meiyappan Nagappan**, Brian Robinson, “Creating Operational Profiles of Software Systems by Transforming their Log Files to Directed Cyclic Graphs”, *In the proceedings of the 6th International Workshop on Traceability in Emerging Forms of Software Engineering (TEFSE 2011)*, Waikiki, Honolulu, HI, May 23, 2011. Pages 54-57. (Acceptance Rate: 62%).
6. **Meiyappan Nagappan**, Aaron Peeler, Mladen A. Vouk, “Modeling Cloud Failure Data: A Case Study of the Virtual Computing Lab”, *In the proceedings of the 2nd International Workshop on Software Engineering for Cloud Computing (SELOUD 2011)*, Waikiki, Honolulu, HI, May 22, 2011. Pages 8-14. (Acceptance Rate: 56%).
5. **Meiyappan Nagappan**, Mladen A. Vouk, “Abstracting Log Lines to Log Event Types for Mining Software System Logs”, *In the proceedings of the 7th Working Conference on Mining Software Repositories (MSR 2010)*, Cape Town, South Africa, May 2-3, 2010. Pages 14-17. (Acceptance Rate: 31%).
4. **Meiyappan Nagappan**, “Analysis of Execution Log Files”, *In the proceedings of the Doctoral Symposium track of the 32th International Conference on Software Engineering (ICSE 2010)*, Cape Town, South Africa, May 4, 2010. Pages 409-412. (Acceptance Rate: 67%).
3. **Meiyappan Nagappan**, Mladen A. Vouk, Kesheng Wu, Alex Sim, Arie Shoshani, “Efficient Operational Profiling of Systems using Suffix Arrays on Execution Logs”, *In the proceedings of the Student Paper track in the 19th International Symposium on Software Reliability Engineering (ISSRE 2008)*, Redmond, WA, November 11-14, 2008. Pages 313-314.
2. **Meiyappan Nagappan**, Mladen A. Vouk, “A Model for Sharing of Confidential Provenance Information in a Query Based System”, *In the proceedings of the 2nd International Provenance and Annotation Workshop (IPAW 2008)*, Salt Lake City, Utah, June 17-18, 2008. Pages 62-69.
1. Nedunchelian Ramanujam, Koushik Kalyanaraman, **Meiyappan Nagappan**, Raghu Viswanathan, “Dynamic Task Scheduling Using Parallel Genetic Algorithms for Heterogeneous Distributed Computing”, *In the proceedings of the International Conference on Grid Computing and Applications (GCA'06)*, Las Vegas, USA. June 26-29, 2006.

Theses

3. **Meiyappan Nagappan**, “A Framework for Analyzing Software System Log Files”, PhD Dissertation, North Carolina State University, 2011.

2. **Meiyappan Nagappan**, “A Model for Sharing of Confidential Provenance Information in a Query Based System”, PhD Qualifiers Exam, North Carolina State University, 2008.
1. **Meiyappan Nagappan**, “Dynamic Scheduling of tasks in a Grid Environment”, Senior Thesis, SVCE, Anna University, May 2006.

Invited Talks and Tutorials Presented

13. “Software Engineering for Mobile Apps: Research Accomplishments and Future Challenges”, Tutorial at *ESEC/FSE 2015*, Bergamo, Italy, August 2015. (10 - 15 attendees).
12. “Big(ger) Data in Software Engineering”, Tutorial at *ICSE 2015*, Florence, Italy, May 2015. (20-25 attendees).
11. “Big(ger) Data in Software Engineering”, Invited talk at *MSR Asia*, Tokyo, Japan, November 2014. (25-30 attendees).
10. “Analytics on Ad Library Maintenance in Android Apps”, Invited talk at *Dagstuhl Seminar 14261 - Software Development Analytics*, Dagstuhl, Germany, June 2014. (30 - 40 attendees).
9. “Big(ger) Data in Software Engineering”, Invited talk at *IIT Madras*, Chennai, India, June 2014. (25-30 attendees).
8. “Leveraging Performance Counters and Execution Logs to Diagnose Memory-Related Performance Issues”, Invited talk at *Tata Research Development & Design Centre*, Pune, India, October 2013. (15-20 attendees).
7. “Large Scale Studies of Mobile Apps in the Android and iOS Markets”, Invited talk at *IBM Research, India*, Bangalore, India, October 2013. (25-30 attendees).
6. “Statistics in Software Engineering: Pitfalls and Good Practices”, Tutorial at *ESEC/FSE 2013*, Saint Petersburg, Russia, August 2013. (25-30 attendees).
5. “Large Scale Studies of Mobile Apps in the Android and iOS Markets”, Invited talk at *Microsoft Research*, Redmond, WA, May 2013. (25-30 attendees).
4. “Towards Improving Statistical Modelling of Software Engineering Data: Think Locally, Act Globally!”, Talk at the *Symposium on Augmenting Software Developer Support to Improve Productivity*, Monte Verità, Ascona, Switzerland, March 2013. (50-60 attendees).
3. “Introduction to Scientific Workflow Management and the Kepler System”, *SuperComputing 2008*, Austin, TX, November 2008. (25-30 attendees).
2. “Introduction to Scientific Workflow Management and the Kepler System”, *SuperComputing 2007*, Reno, NV, November 2007. (25-30 attendees).
1. “Introduction to Scientific Workflow Management and the Kepler System”, *Oak Ridge National Labs - All Hands Meeting*, Oak Ridge, TN, March 2007. (25-30 attendees).

Awards and Honors

- *Invited paper in Leaders Of Tomorrow: Future Of Software Engineering* track at the 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2016) on the topic of “Future Trends in Mining Mobile App Stores”.
- *ACM Distinguished Paper, Best Paper Award* and journal extension invitation in Empirical Software Engineering, for the paper titled “Do Bugs Foreshadow Vulnerabilities? A Study of the Chromium Project” (Felivel Camilo, Andrew Meneely, and **Meiyappan Nagappan**), at *12th Working Conference on Mining Software Repositories (MSR 2015)*, Florence, Italy. May 16-17, 2015.

- Best Presentation, Consortium for Software Engineering Research (CSER 2013 - Spring Meeting), 2013.
- *Best Paper Award* and journal extension invitation in Empirical Software Engineering, for the paper titled “Think Locally, Act Globally: Improving Defect and Effort Prediction Models” (Nicolas Bettenburg, **Meiyappan Nagappan**, and Ahmed E. Hassan), at *9th Working Conference on Mining Software Repositories (MSR 2012)*, Zurich, Switzerland. June 2-3, 2012.
- Best Poster, Consortium for Software Engineering Research (CSER 2011 - Winter Meeting), 2011.
- Member of Phi Kappa Phi, The Honor society, 2008.
- *Outstanding Teaching Assistant Award* for the year 2007, Computer Science Graduate Student Association, North Carolina State University, 2008.
- Recipient, IEEE ISSRE 2008 Student paper Travel award, 2008.

Professional Service

Chair

- *Editor-in-Chief* of the “IEEE Software Blog”.
- *Publicity Chair*, 24th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2016).
- *Organized the Shonan Workshop* on “Mobile App Store Analytics”, Shonan, Japan, October 2015 (28 attendees).
- *Student Volunteer Chair*, 36th International Conference on Software Engineering (ICSE 2014).
- *PC Chair*, 4th IEEE International Workshop on Empirical Software Engineering in Practice (IWESEP 2012).
- *Co-Organizer*, Mining Software Repositories Vision 2020 (MSR Vision 2020 - August 2012).
- *Website Chair*, 19th IEEE International Symposium on Software Reliability Engineering (ISSRE 2008).

PC Member

- 38th International Conference on Software Engineering - Research Track (ICSE 2016).
- 38th International Conference on Software Engineering - Poster Track (ICSE 2016).
- 30th, 31st, 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME).
- 11th, 12th, 13th ACM/IEEE Working Conference on Mining Software Repositories (MSR).
- 1st, 2nd International Workshop on BIG Data Software Engineering (BIGDSE).
- 22nd, 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER).
- 37th International Conference on Software Engineering - Demo Track (ICSE 2015).
- ERA track of the 22nd International Conference on Program Comprehension (ICPC 2014).

- ERA track of the 29th IEEE International Conference on Software Maintenance (ICSM 2013).
- Data Challenge track of the 10th ACM/IEEE Working Conference on Mining Software Repositories (MSR 2013).
- 6th ACM SIGSOFT India Software Engineering Conference (ISEC 2013).
- Tool Demo track of the 19th Working Conference on Reverse Engineering (WCRE 2012).
- 23rd IEEE International Symposium on Software Reliability Engineering (ISSRE 2012).

Reviewer - Journal

- IEEE Transactions on Software Engineering (TSE).
- Empirical Software Engineering (ESE).
- The Journal of Systems and Software (JSS).
- IEEE Software.
- Transactions on Software Engineering and Methodology (TOSEM).

Departmental Service

- Committee Member - GCCIS Outstanding Scholar Committee - 2014.
- Mentor in the STARS Program (North Carolina State University) - 2008-2011.
- Assisted in processing Graduate School applications for the Department of Computer Science (North Carolina State University) - 2010.
- Committee Member - University Library Committee (North Carolina State University) - 2008-2009.

Teaching Experience

Instructor

- Empirical Software Engineering using Ultra Large Repositories (CISC 835 - Queen's University - Graduate Higher Level Course) - Fall 2012. (6 students - two projects accepted as publications and three projects under submission).
- Software Engineering (CSC 326L-00X - NCSU - Undergraduate Core Course Lab) - Fall 2006, Spring 2007, Fall 2007. (20-25 students each semester).

Teaching Assistant

- Software Testing and Reliability (CSC 712 - NCSU - Graduate Level Course) - Fall 2006. (12 students).
- Computer Architecture and Multiprocessors (CSC 456 - NCSU - Undergraduate Course) - Spring 2007. (25-30 students).

Referees

Dr. Ahmed E. Hassan

NSERC/BlackBerry Industrial Research Chair
in Software Engineering
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School of Computing, Queen's University
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Dr. Harald C. Gall

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Dr. Audris Mockus

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Dr. Thomas Zimmermann

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