

Name: Ahmad Ali Saifan

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Education

Ph.D. *2010, Queen's University, Canada*
Dissertation Title Runtime Conformance Checking of Mobile Agent Systems Using Executable Models

M.Sc.
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Emphasis *2003, Yarmouk University, Jordan*
 Computer Science

B.Sc. *2001, Yarmouk University, Jordan*
Major Computer Science

Professional Experience

Chairman of the Software Engineering Department, Faculty of Information Technology and Computer Science, Yarmouk University, Irbid, Jordan. (Sep-2016- present).

Assistant Professor. Computer Information Systems Department, Faculty of Information Technology and Computer Sciences, Yarmouk University, Irbid, Jordan (Sep-2010 – Sep 2016)

Chairman of the Computer Information Systems, Faculty of Information Technology and Computer Science, Yarmouk University, Irbid, Jordan. Sep-2011- Sep. 2013.

Research and Teaching Assistant, School of Computing, Queen's University, Ontario, Canada (2007- 2008).

Instructor – Computer Information Systems Department, Faculty of Information Technology and Computer Sciences, Yarmouk University, Irbid, Jordan (Sep-2003 - May 2006)

Research Interests

- Software Engineering
- Software testing and verification
- model-based testing
- Model checking
- Mobile agent systems
- Data mining

Publications

❖ Journal Articles

- Ahmad A. Saifan, Ahmad Al-Zyoud, (2016). Mutation Testing to Evaluate Android Applications. Submitted to Information and Software Technology, Nov, 2016.
- Akour, M., **Ahmad A. Saifan**, and Ratha'an O, (2016). Traceability between Code and Design Documentation in Database Management Systems: A Case Study, The International Arab Journal of Information Technology (IAJIT), (ACCEPTED). To be published in volume 15 No 5.
- **Ahmad A. Saifan**, Emad Alsukhni, Hanadi Alawneh, Ayat Al-Sbaih, (2016). Test Case Reduction using Data Mining Technique, International Journal of Software Innovation, (ACCEPTED). To be published in volume 4 issue 4.
- **Ahmad A. Saifan**, Akour M., Alazzam, I., Hanandeh F. (2016). Regression Test-Selection Technique Using Component Model Based Modification: Code to Test Traceability. International Journal of Advanced Computer Science and Applications (IJACSA). 7(4): 90-95.
- **Ahmad A. Saifan** and Wafa Bani Mustafa, Using Formal Methods For Test Case Generation According To Transition-Based Coverage Criteria, Jordanian Journal of Computers and Information Technology. Dec 2015, 1(1), pp. 15-30.
- Mohammed G. Al-Zamil, S. Samarah, **Ahmad A. Saifan**, I. Al Smadi: Dispersion-based prediction framework for estimating missing values in wireless sensor networks. International Journal of Sensor Networks (IJSNet), 12(3): 149-159 (2012).
- Samer Samarah, Mohammed Al Zamil, **Ahmad A. Saifan**. Model Checking Based Classification Technique for Wireless Sensor Networks. New Review of Information Networking 17(2):93-107. 2012.

- Eslam Al Maghayreh, Samer Samarah, Faisal Alkhateeb, Iyad Abu Doush, Izzat Alsmadi, and **Ahmad A. Saifan**, A Framework for Monitoring the Execution of Distributed Multi-agent Programs, International Journal of Advanced Science and Technology, Vol. 38, January, 2012, pp. 53-66.
- Izzat Alsmadi, Samer Samarah, **Ahmad A. Saifan** and Mohammed G. AL Zamil. Automatic Model Based Methods to Improve Test Effectiveness, Universal Journal of Computer Science and Engineering Technology, 1(1), 41 - 49. 2010.
- Izzat Alsmadi , Samer Samarah , **Ahmed A. Saifan**, and Mohammed AL Zamil. Evaluate and Improve GUI Testing Coverage Automatically. Int.J. of Software Engineering, IJSE Vol.4(2):41-60 July 2011
- Ghassan Kanaan, Riyad Al-Shalabi, Mohammed G. Al-Zamil, **Ahmad A. Saifan**: Comparison between Ad-hoc Retrieval and Filtering Retrieval Using Arabic Documents. Int. J. Comput. Proc. Oriental Lang. 17(3): 181-199 (2004).

❖ Conferences

- **Ahmad A. Saifan**, Test Case Reduction using Data Mining Classifier Techniques. (2016). 2nd International Conference on Computer and Information Technology (ICCIT 2016). Istanbul, Turkey April 11-12, 2016.
- **Ahmad A. Saifan**,. and Wahsheh, H. A. 2012. Mutation operators for JADE mobile agent systems. In Proceedings of the 3rd international Conference on information and Communication Systems (Irbid, Jordan, April 03 - 05, 2012). ICICS '12. ACM, New York, NY, 1-5. DOI=<http://doi.acm.org/10.1145/2222444.2222460>.
- Nesreen Al-Khalidi, **Ahmad A. Saifan** and Izzat Alsmadi. Selecting a Standard Set of Attributes for Cost Estimation of Software Projects, 2012 International Conference on Computer, Information and Telecommunication Systems, CITS 2012, Amman, Jordan.
- **Ahmad A. Saifan**, Jürgen Dingel, Jeremy S. Bradbury, Ernesto Posse: Implementing and Evaluating a Runtime Conformance

Checker for Mobile Agent Systems. In Software Testing, Verification and Validation (ICST), 2011 IEEE Fourth International Conference on (pp. 269-278). IEEE.

- **Ahmad A. Saifan**, Ernesto Posse, Jürgen Dingel: Run-time conformance checking of mobile and distributed systems using executable models. In Proceedings of the 7th Workshop on Parallel and Distributed Systems: Testing, Analysis, and Debugging (PADTAD) (p. 1). ACM. 2009.
- **Ahmad A. Saifan**, Jürgen Dingel: A Survey of Using Model-Based Testing to Improve Quality Attributes in Distributed Systems. In Advanced Techniques in Computing Sciences and Software Engineering (pp. 283-288). Springer Netherlands.

❖ Books

- Riyadh Al-Shalabi, Ghassan Kanaan, Mohammad Rawwash and **Ahmad A. Saifan**. Applications in Computer Sciences and statistics. 2005. 300pp.

❖ Other Publications

- **Ahmad A. Saifan**, " Runtime Conformance Checking of Mobile Agent Systems Using Executable Models ", PhD thesis, Queen's University, 2010.
- **Ahmad A. Saifan** and Juergen Dingel. Model-based testing of distributed systems. Technical Report 2008-548, School of Computing, Queen's University, 2008.

Funded Projects

- Suileman H. Mustafa, Qasem A. Al-Radaideh, **Ahmad A. Saifan**, Mohammed A. Akour, Iyad M. Al-Azzam. Joint programs and framework for doctoral education in software engineering - THE «PATHWAYS TO PHD» - PWS@PHD. Erasmus+. (60285€), 2015.

- **PI: Ahmad Saifan.** Approved initial proposal of a funded project from the **Scientific Research Support Fund** has been accepted. The detailed proposal has been submitted on April 26, 2016 with a total amount of **60000 JD** (\$83333).

Honors & Awards

- ❖ Awarded as one of the best 10 software specification projects in Zayed university competition in IT, April 2011.
- ❖ Awarded the eleventh place as a coach in the Jordanian collegiate Programming Contest for the unexpected team from Yarmouk university, August 2015 .
- ❖ Awarded a scholarship from Yarmouk University (in 2001) to complete my Master degree in Computer Science.
- ❖ Awarded a scholarship from Yarmouk University (in 2004) to complete my PhD degree in Computer Science.
- ❖ Queen's Graduate Award. Queen's University, Ontario, Canada. 2007
- ❖ Queen's General Bursary. Queen's University, Ontario, Canada. 2006-2009

Editorship and Refereeing Activities

- Reviewer in the International Arab Journal of Information Technology 2010-now
- Reviewer in International Journal of Advanced Computer Science and Applications. IJACSA
- Technical committee member in International Conference on Computer and Information Technology (ICCIT 2016)
- Program committee member in the 7th International Conference on Computer Science and Information Technology (CSIT 2016)

Other Academic Activities

- Chair of the ACM programming competition group, Faculty of Faculty of Information Technology and Computer Science, Yarmouk University. For the year 2016/2017.
- Chair and Member of the Curriculum Committee, Department of Computer Information systems, Yarmouk University, for the academic years 2011/2012 and 2012/2013. And member for academic year 2015/2016.
- Member of the quality assurance committee at the Faculty of Information Technology and Computer Science, Yarmouk University, for the academic year 2012/2013.
- Member of the Investigation Committee for Students Violations at the Faculty of Information Technology and Computer Science, Yarmouk University, for the academic year 2014/2015.

- Chair and Member of the Software Engineering/Bachelor Program Committee, Department of Computer Information Systems, Yarmouk University, for the academic year 2011/2012.
- Chair and Member of the Software Engineering/Master Program Committee, Department of Computer Information Systems, Yarmouk University, for the academic year 2014/2015.
- Chair and Member of the Graduate Studies Committee, Department of Computer Information Systems , Yarmouk University, for the academic year 2011/2012, 2012/2013.
- Member of the Quality assurance Committee, Faculty of Information Technology and Computer Sciences, Yarmouk University, for the academic year 2012/2013.

Teaching Experience

- Yarmouk University 2003-2006, 2010- till now. I have taught the following courses:
 - CIS 100 Computer Skills 2.
 - CIS 103 Introduction to Information Technology.
 - CIS 104 Introduction to Information Systems.
 - CIS 110 Internet Programming.
 - CIS 240 Software Engineering.
 - CIS 256 File Structure.
 - CSI 440 Object Oriented analysis and design.
 - CSI 499 Bachelor Graduation Project
 - CIS 642 Software Testing and Performance Assessment.
 - CIS 641 Advanced Software Engineering.
 - CSI 646 Advanced Object-Oriented analysis and Design.
 - CIS 695 Master Graduation Project

Supervisor for the following thesis:

- Identifying Logical Errors Locations in Database Management Systems using Event Extraction, by Osama Ratha'an. Starting March 2016- now.
- Mutation Testing to Evaluate Android Applications, by Ahmad Al-Zyoud, starting November 2015-
- A classifier to detect profit and non profit websites upon textual metrics, by Dirar Darweesh, co-supervised with Dr. Yahya Tashtoush. JUST. 2013-December 2014.

- Investigating the Ability of Testing Web Application Based on Traditional Software Testing Techniques, by Mahmmoud Bani Ata, starting August 2014- December 2015 .

Graduation Project Supervision at Yarmouk University

- Wafa Bani Mustafa
- Heba Badarneh
- Nesreen Al khalidi
- Rasha al Jarrah

Examiner for the following thesis:

- An empirical inspection of the refactoring tools impacts on software quality, by Shatha shlool, 2015, JUST.
- Traceability enhancements on source code analysis tools to improve software defects prediction, by Qusai Al-Zoubi, 2013, Yarmouk University.
- A notional understanding of the relations between code readability and software complexity, by Noor Abu El Rub, 2013, JUST.
- Sentimental Information Retrieval for Arabic Social and News Networks, by Safaa Bani Essa, 2013, JUST.

Membership of Committees

- IEEE member
- Member of the IEEE computer Society
- Member of the Graduate Studies Committee, Department of Computer Information Systems , Yarmouk University, for the academic year 2011/2012, 2012/2013.
- Member of the Quality assurance Committee, Faculty of Information Technology and Computer Sciences, Yarmouk University, for the academic year 2012/2013.

References

Available upon request