

CURRICULUM VITAE

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Google Scholar profile :

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1. Personal Data

Date of Birth: 6 / 8 / 1972

Nationality: Jordanian

2. Education

- Ph.D. in computer science and engineering, University of Toledo, Toledo, Ohio, USA
- Master in computer science, University of Jordan, Amman, Jordan
- B.Sc. Computer science, University of Jordan, Amman, Jordan

3. Ph.D. Dissertation

Synthesis of Partial Behavior Models from Overlapping Scenarios with Alternative Alphabets, University of Toledo, Toledo, Ohio, USA.

4. Employment



Academic Positions

- Assistant Professor, Software Engineering Department, Amman, Jordan , Al-Zaytoonah University of Jordan, 2/2/2011-
- Instructor, Computer science Department, Amman, Jordan , Al-Zaytoonah University of Jordan, 6/10/2003 – 5/10/2005
- Instructor, Software Engineering Department, Amman, Jordan , Al-Zaytoonah University of Jordan, 6/10/2005 – 31/12/2007
- Assistant Professor, Software Engineering Department, Amman, Jordan , Al-Zaytoonah University of Jordan, 2/2/2011-
- Instructor, Computer science Department, Amman, Jordan , Al-Zaytoonah University of Jordan, 6/10/2003 – 5/10/2005

Administrative Positions

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5. Research Interests

My research interests involve software engineering and specifically the following: Requirements engineering, scenario-based requirements engineering, requirements elicitation and negotiation, model-based development and evolution, and bridging software requirements and software architectures, Software maintenance and evolution, code refactoring and reverse engineering., Database systems and Oracle programming, administration and consulting.

6. Membership in Scientific Societies and Associations

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7. Honors and Awards

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8. Fellowships and Scholarships

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9. Teaching Experience



- **Graduate Courses**

Advanced Software Testing

- **Undergraduate Courses**

Software Requirements
 Software Reengineering and Maintenance
 Object Oriented Software Engineering
 Software Validation and Verification
 Software Testing
 Project Management
 Technical Writing
 Database management
 Graduate Project
 Practical Training
 Object-Oriented Analysis And Design
 Software Engineering I
 Introduction to Software Engineering
 Algorithms Design and analysis
 Data Structures
 Advanced C++ Programming
 Programming In Java
 Special Topics in Computer Science
 computer skills II (Programming in visual basic)
 computer skills I (introduction to computer science)

10. Supervision of Graduate Research

- Student name: Ahmad Hammad,
 Thesis title: Automated test cases generation from requirements specification
 Date: 2019-

11. Grants

A novel integrated approach for software requirements documentation and management, 1/12/2015 -1/12/2016, Al-Zaytoonah University of Jordan, 17100JD.

Student graduation project: Sign language education and communication, King Abdullah II Fund for Development KAFD, 3/1/2016 -3/7/2016, 2375JD.

Intelligent Model for engineering software requirements, 14/5/2018 -14/11/2019, Al- Zaytoonah University of Jordan, 7000 JD.



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Smart University- Power Conservation Using the Internet of Things
(Microcontrollers, Sensors and Smart Programs for Data Analysis and Decisions making) 8/4/2019 - 8/11 /2020, Al- Zaytoonah University of Jordan, 14100JD.

12. Patents

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13. Membership of Committees

- National and International
 - *Serve as member to check the compliance of software engineering major in AQABA University*
- University
 - Coordinator of the Examinations and Evaluation Committee in the Software Engineering Department -2013/2014, 2014-2015, 2018/2019.
 - Member of the Examinations and Evaluation Committee in the Software Engineering Department – 2017/2018.
 - Member of the courses curriculums committee in the Software Engineering Department -2013/2014, 2014-2015, 2015/2016,2016/2017,2018/2019
 - Coordinator of the Equation, Guidance, Training & Graduates Follow-up Committee 2016/2017, 2017/2018

14. Professional and Scientific Meetings

Scientific Meetings Organized

- Track Char of Information Technology Trends track in the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT)

Participation in Scientific meetings

- Serve as scientific committee member and reviewer in 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT).
- Serve as scientific committee member and reviewer in International Conference on Information Technology, at Al-Zaytoonah University, Amman, Jordan, in 2011, 2013 ,2015, 2017.



15. Participation in or organization of curricular and/or extra-curricular activities

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16. Publications

Papers in refereed journals

Hawashin, B., **Lafi, M.**, Kanan, T., and Mansour, A. *An efficient hybrid similarity measure based on user interests for recommender systems*. Expert Systems 0, 0, e12471. e12471 EXSY-Oct-18-406.R4.

Lafi, M., and Abdel Qader, A. *A novel dynamic integrated model for automated requirements engineering process*. International Journal of Computer Applications in Technology 56, 4 (2017), 292–300.

Lafi, M., and Abdel Qader, A. *A novel automated requirements prioritization and selection model based on requirements weights and stakeholder importance*. International Journal on Information Technology (IREIT) 4, 4 (2016), 105–109.

Books and Book Chapters

Lafi, M., and Carvalho, J. *Behavioral models with alternative alphabets*. In Innovations and Advances in Computer, Information, Systems Sciences, and Engineering. Springer, 2013, pp. 975–987.

Lafi, M. *Synthesis of partial behavior models from overlapping scenarios with alternative alphabets*. Electronic Thesis or Dissertation University of Toledo, 2011.

Conferences Presentations

M. Lafi, B. Hawashin and S. AlZu'bi, "Maintenance Requests Labeling Using Machine Learning Classification," *2020 Seventh International Conference on Software Defined Systems (SDS)*, Paris, France, 2020, pp. 245-249, doi: 0.1109/SDS49854.2020.9143895.

Lafi, M., Osman, M. S., and Wasmi, H. A. Improved monkey tool for random testing in mobile applications. In *2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT)* (April 2019), pp. 658–662.

Hourani, H., Hammad, A., and **Lafi, M.** The impact of artificial intelligence on software testing. In *2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT)* (April 2019), pp. 565–570.

Lafi, M., Botros, J. W., Kafaween, H., Al-Dasoqi, A. B., and Al-Tamimi, A. Code smells analysis mechanisms, detection issues, and effect on software maintainability. In



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2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT) (April 2019), pp. 663–666.

Farhan, K. A., Abdel-Fattah, F., Altarawneh, F., and **Lafi, M.** Survey paper on multicast routing in mobile ad-hoc networks. In 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT) (April 2019), pp. 449–452.

Lafi, M., and Carvalho, J. *Detecting and decomposing overlapping scenarios using pattern matching*. In African Conference on Software Engineering and Applied Computing 2011 (2011), ACSEAC 2011.