Mustafa M. Hammad, Ph.D.

Associate Professor

Department of Computer Science, Faculty of IT

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Personal Information

- Place and Date of Birth: Saudi Arabia 25/11/1981

- Country of Citizenship: Jordan

- Home Address: Amman, Jordan

Education

- Ph.D. Computer Science, New Mexico State University – USA, 2010

- M.S. Computer Science, Al- Balqa' Applied University – Jordan, 2005

- B.S. Computer Science, The Hashemite University – Jordan, 2002

Academic and Professional Experience

- Associate Professor. Department of Information Technology, Mutah University, since Jan 2016.

- Assistant Professor. Department of Information Technology, Mutah University, 2011 – 2015.

- Chairman of the Department of Information Technology, Mutah University, September 2014 – August 2015.

- Teacher Assistant, Department of Computer Science, New Mexico State University, USA 2007 - 2010.

- Research Assistant, Department of Computer Science, New Mexico State University, USA 2007 - 2010.

- Project Manager, Global Trust Soft, Amman - Jordan, 2002-2006.

Research Interests

Software engineering, evolution, & maintenance; software traceability; program comprehension & analysis; reverse engineering; source code exploration, manipulation, and transformation; software visualization.

Publications

Hamzeh Eyal Salman, **Mustafa Hammad**, Abdelhak-Djamel Seriai, Ahed Al-Sbou, "Semantic Clustering of Functional Requirements Using Agglomerative Hierarchical Clustering", *Information*, 9 (9), 2018.

Mohammad Alnabhan, Awni Hammouri, **Mustafa Hammad,** Mohammad Atoum, Omamah Al-Thnebat, "2D visualization for object-oriented software systems", *IEEE 2018 International Conference on Intelligent Systems and Computer Vision (ISCV)*, Morocco 2018

Awni Hammouri, **Mustafa Hammad**, Mohammad Alnabhan, Fatima Alsarayrah, "Software Bug Prediction using Machine Learning Approach", *International Journal Of Advanced Computer Science And Applications*, 9(2), 2018

Mohammad Alnabhan, Mahmoud Alshuqran, **Mustafa Hammad**, Mohammad Al Nawayseh, "Performance Evaluation of Unicast Routing Protocols in MANETs–Current State and Future Prospects", *International Journal of Interactive Mobile Technologies*, 11(1), 2017

Mustafa Hammad, M Alhwari, "Generating Sequence Diagram and Call Graph Using Source Code Instrumentation", *14th International conference on Information Technology: New Generations*, Las Vegas, NV, USA, Springer, 2017

M. Alnabhan, M. Alshuqran, **Mustafa Hammad**, M. Al Nawayseh, "Performance Evaluation of Unicast Routing Protocols in MANETs – Current State and Future Prospects", *International Journal of Interactive Mobile Technologies* 11(1), pp. 84-97, 2017

H Eyal Salman, A Seriai, **Mustafa Hammad**, "Quality-Driven Feature Identification And Documentation From Source Code", *Journal of Theoretical and Applied Information Technology*, 84(2), pp.183-195, 2016

Mustafa Hammad, M Alawadi, "Sentiment Analysis for Arabic Reviews in Social Networks Using Machine Learning", *13th International conference on Information Technology: New Generations*, Las Vegas, NV, USA, Springer, 2016

M Alawadi, E Alhasanat, **Mustafa Hammad**, "Dynamic Virtual Teams in Project Management", *International Journal of u- and e- Service, Science and Technology*, 8(7), pp. 251-258, 2015

ES Btoush, **Mustafa Hammad**, Generating ER Diagrams from Requirement Specifications Based On Natural Language Processing, International Journal of Database Theory & Application 8 (2), pp.61-70, 2015

Mustafa Hammad, Visualization Approach for Software Projects, Canadian Journal of Pure and Applied Sciences, 9 (2), pp.3431-3439, 2015

Mustafa Hammad, Identifying Related Commits from Software Repositories, International Journal of Computer Applications in Technology, 51 (3), pp.212-218, 2015

M Hammad, S Abufakher, **Mustafa Hammad**, A Visualization Approach for Bug Reports in Software Systems. International Journal of Software Engineering & Its Applications, 8 (10), pp. 37-45, 2014

M Hammad, **Mustafa Hammad**, H Bani-Salameh, E Fayyoumi, Measuring Developers' Design Contributions in Evolved Software Projects, Journal of Software, 9 (12), pp.3005-3011, 2014

M Hammad, **Mustafa Hammad**, AF Otoom, M Bsoul, Detecting Breaks in Design Patterns from Code Changes. Journal of Software, 9 (6), pp.1485-1493, 2014

Mustafa Hammad, A Rawashdeh, A Framework to Measure and Visualize Class Coupling. International Journal of Software Engineering & Its Applications, 8 (4), pp.137-146, 2014

M Hammad, **Mustafa Hammad**, M Bsoul, An approach to automatically enforce object-oriented constraints. International Journal of Computer Applications in Technology. 49 (1), pp.50-59, 2014

M Hammad, **Mustafa Hammad**, H Bani-Salameh, Identifying Designers and their Design Knowledge. International Journal of Software Engineering and Its Applications 7 (6), pp. 277-288, 2013

S Masadeh, **Mustafa Hammad**, Isolated Handwritten Arabic Letters Recognition Using Online Structural Approach and Freeman Chain Code. Mu'tah Lil-Buhuth wad-Dirasat, 28 (3), 2013

Mustafa Hammad, J Cook, Compositional Verification of Sensor Software Using Uppall. Proceedings of 23rd IEEE International Symposium on Software Reliability Engineering (ISSRE), pp.351-360, 2012

Mustafa Hammad, J Cook, Lightweight Deployable Software Monitoring for Sensor Networks. Proceedings of 18th IEEE Conference on Computer Communications and Networks (ICCCN), pp.1-6, 2009

Mustafa Hammad, J Cook, Lightweight Monitoring of Sensor Software. Proceedings of the ACM Symposium on Applied Computing (SAC), pp.2180-2185, 2009

I El Emary, **Mustafa Hammad**, On-line Structural Approach for Recognizing Hand-Written Indian Numbers ICGST International Journal on Graphics, Vision and Image Processing, 5, pp.31-36, 2005

Ph.D. Dissertation:

Mustafa Hammad, Improving sensor software understanding using dynamic and static analysis. New Mexico State University, USA, 2010