

DR. MOHAMED EL-ATTAR
SOFTWARE ENGINEERING ASSOCIATE PROFESSOR

Associate Professor of Software Engineering
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EDUCATION

Ph.D. Software Engineering - *University of Alberta, Canada –2009*
B.Eng. Computer Systems Engineering, *Carleton University, Canada –2003*

WORK EXPERIENCE

2017 – present: **Associate Professor** of Software Engineering – *Alfaisal University, KSA*
2016 – 2017: **Associate Professor** of Software Engineering – *University of Ontario Institute of Technology, Canada*
2015 – 2016: **Associate Professor** of Software Engineering - *Mississippi State University, USA*
2009 – 2013: **Assistant Professor** of Software Engineering – *King Fahd University of Petroleum and Minerals, KSA*

TEACHING EXPERIENCE

Teaching 15 distinct undergraduate and graduate courses over 8 years at a professorial rank. Courses taught intercontinental at the Kingdom of Saudi Arabia at Alfaisal University and King Fahd University of Petroleum and Minerals. Courses also taught in North America at Mississippi State University, USA and the University of Ontario Institute of Technology, Canada.

SCHOLARSHIPS AND AWARDS

- ❖ Best Paper Award at the 21st International Conference on Software Engineering and Data Engineering, Los Angeles, California, USA. 2012.
- ❖ Best Paper Award at the 6th International Conference on Software Engineering Advances, Barcelona, Spain. 2011.
- ❖ Queen Elizabeth II Graduate Scholarship
(*Bestowed upon 70 recipients from a total of 4500 eligible graduate students*)
- ❖ J. Gordin Kaplan Graduate Student Award

RESEARCH SPECIALIZATIONS

Within the broad area of Software Engineering: Secure Software Engineering; Human Centered Computing in Software Engineering; Requirements Engineering; Empirical Software Engineering; Model-Based Process Improvement and Testing.

Publication Record: A summary of my publication record (2006 – 2017)

	Journal Papers	Refereed Conference	Journal Submissions
Total	19	20	5

Journal Publications last 5 years:

1. **M. El-Attar, H. Luqman**, P. Karpati, G. Sindre, A. Opdahl, “Extending the UML Statecharts Notation to Model Security Aspects,” *IEEE Transactions on Software Engineering* – IEEE Computer Society, vol. 41, no. 7, pp. 661-690, 2015. (*Impact Factor: 1.614*)
2. **M. Saeed, F. Saleh**, S. Alinsaf, M. El-Attar, “Empirical Validating the Cognitive Effectiveness of a New Feature Diagrams Visual Syntax,” *Information and Software Technology* – *Accepted* (*Impact Factor: 1.046*)
3. **F. Saleh, M. El-Attar**, “A Scientific Evaluation of the Misuse Case Diagrams Visual Syntax” *Information and Software Technology* – Elsevier, vol. 66, pp. 73-96, 2015. (*Impact Factor: 1.046*)
4. **M. El-Attar**, “Supporting Consistency During the Development and Evolution of Quality Unified Use-Misuse Case Models,” *International Journal of Secure Software Engineering* – IGI Global (2015). *Accepted*

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5. **M. El-Attar, H. A. Abdul-Ghani**, "Using Security Robustness Analysis for Early-Stage Validation of Functional Security Requirements," *Requirements Engineering Journal* – Springer (2014). *Accepted (Impact Factor: 0.882)*
6. **Y. Khan, M. El-Attar**, "Using Model Transformation to Refactor Use Case Models based on Antipatterns," *Information Systems Frontiers* – Springer (2014). *Accepted (Impact Factor: 1.077)*
7. **M. El-Attar**, "Using SMCD to Reduce Inconsistencies in Misuse Case Models: A Subject-Based Empirical Evaluation," *Journal of Systems and Software* – Elsevier, vol. 87, no.1, pp. 104-118, 2014. *(Impact Factor: 1.352)*
8. **M. El-Attar**, "From Misuse Cases to Mal-Activity Diagrams: Bridging the Gap between Functional Security Analysis and Design," *Journal of Software and Systems Modeling* – Springer, vol. 13, no. 1, pp. 173-190, 2014. *(Impact Factor: 1.408)*
9. **M. El-Attar**, "Towards Developing Consistent Misuse Case Models," *Journal of Systems and Software* – Elsevier, vol. 85, no. 2, pp. 323-339, 2012. *(Impact Factor: 1.352)*
10. **M. El-Attar, J. Miller**, "Constructing High Quality Use Case Models: A Systematic Review of Current Practices," *Requirements Engineering Journal* – Springer, vol. 17, no. 3, pp. 187-201, 2012. *(Impact Factor: 0.882)*
11. **M. El-Attar**, "A Framework for Improving Quality in Misuse Case Models," *Business Process Management Journal* – Emerald Publishing, vol. 18, no. 2, pp. 168-196, 2012.
12. **M. El-Attar, R. Singh, J. Miller**, "Embracing Composite Metrics in Software Experiments," *Journal of Software* – Academy Publisher, vol. 7, no. 7, pp. 1664-1676, 2012.
13. **M. El-Attar, M. O. Elish, S. Mahmood, J. Miller**, "Is In-Depth Object-Oriented Knowledge Necessary to Develop Quality Robustness Diagrams?" *Journal of Software* – Academy Publisher, vol. 7, no. 11, pp. 2538-2552, 2012.

Higher Degree Supervision:

- Yasser Ali Khan, "Embracing Model Transformations In Functional Requirements Specification," MS Thesis, KFUPM, May 2013.
- Hezam Akram Abdulghani, "Improving the Quality of Misuse Case Models for Utilization in Secure Software Engineering Processes," MS Thesis, KFUPM, December 2013.
- Mazin Saeed, "Evaluating and Improving the Cognitive Effectiveness of Feature Diagrams and Secure TROPOS," MS Thesis, KFUPM, May 2014.
- Faisal Saleh, "Evaluating and Improving the Cognitive Effectiveness of Security Modeling Notations," MS Thesis, KFUPM, May 2014.

Prior Research Grants:

Role		Total Projects	Total Funds
PI	Co-I		
6	2	8	2,213,977.5 SAR

INVITED PROFESSIONAL PRESENTATIONS

1. **Presentation Title:** Understanding and Leveraging the Use Case Modeling Notation
Location: Vancouver BC Chapter of the IIBA
Date: June 25, 2013
<http://vancouver.iiba.org/index.php/component/eventlist/details/102-understanding-and-leveraging-the-use-case-modeling-notation>
2. **Presentation Title:** The New Look of Software Modeling
Location: Kuwait University
Date: October 1, 2014
3. **Presentation Title:** Understanding and Leveraging the Use Case Modeling Notation
Location: Kuwait University
Date: March 16, 2015