

MAMDOUH ALENEZI, PhD

College of Computer and Information Sciences



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EDUCATION

Ph.D. Software Engineering

North Dakota State University, Fargo, ND

Thesis: "A New Coupling Metric: Combining Structural and Semantic Relationships"

June 2014

M.S. Software Engineering

DePaul University, Chicago, IL

June 2011

B.S. Computer Science

Prince Sultan University, Riyadh

March 2010

CONSULTANCY and FUNDING EXPERIENCE

Wisconsin Falconers Association

Building a reservation system for visitors. People from around the globe come and visit this association at certain times to visit certain types of birds prey.

April 2011

National Information Solutions Cooperative (NISC)

Helped them in transforming the billing management system of Walmart to a web service. The aim of the project was to help Branch managers to access utility bills on their mobile devices

March 2013

Saudi Telecom Company (STC)

A medium-size consultation project between STC and Prince Megren Data Mining Center (MEGDAM). The aim was to reducing repeated calls to improve field operations performance.

May 2016

King Abdulaziz City for Science and Technology (KACST)

Dynamic Capacity Provisioning in Cloud-Based Network. The aim is to handle the challenge of resource allocation in a cloud-based network. The model will handle advance and online reservation resource requests. (163,200 SAR).

January 2017

TEACHING EXPERIENCE

Gifted High-school Students

Mobile Development using Visual Studio

2009

Prince Sultan University

SE 201: Introduction to Software Engineering

SE 211: Software Construction

SE 311: Software Requirements Engineering

SE 322: Software Design & Architecture

SE 353: Building Secure Software Systems

SE 401: Software Quality Assurance & Testing

SE 415: Group Dynamics & Professional Practice

2014 to Present

WORK EXPERIENCE

Dean of Quality Assurance and Development

Prince Sultan University

Sep 2020 to Present

Dean of Educational Services

Prince Sultan University

Sep 2018 to Aug 202

Associate Professor (Department of Computer Science)

Prince Sultan University

Dec 2018 to Present

Chief Information & Technology Officer

Prince Sultan University

Sep 2016 to Aug 2019

General Supervisor of Information Technology & Computing Services

Prince Sultan University

March 2016 to Aug 2016

Chairman of the Department of Computer Science

Prince Sultan University

Sep 2015 to Aug 2016

Assistant Professor (Department of Computer Science)

Prince Sultan University

Sep 2014 to Dec 2018

New Course Development

- SE 211: Software Construction
- SE 311: Software Requirements Engineering
- SE 415: Group Dynamics & Professional Practice

Service and Administration

- University level Examination Committee
- PSU Institutional Policy Committee
- Institutional Strategic Planning Committee
- ABET Steering Committee
- Institutional Technology and Quality Committee
- Institutional Executive Research Committee

Master degree curriculum development

- Participated in development of MS in Software Engineering program
- Participated in development of MS in Cybersecurity Engineering program

Master Thesis Committee

- A Context-Aware Personalization Model for Augmented Reality Applications
- User Experience Dimensions, Aspects, and Measures: Systematic Literature Review
- Software Architecture Stability Evolution in Open Source Object-Oriented Systems

Sample Publications

JOURNAL ARTICLES

ISI	Mamdouh Alenezi: "Internal Quality Evolution of Open-Source Software Systems." Applied Sciences, 2021, 11, 5690
ISI	Mamdouh Alenezi: "Safeguarding Cloud Computing Infrastructure: A Security Analysis." Computer Systems Science and Engineering Vol.37, No.2, 2021, pp.159-167
ISI	Khalid T. Al-Sarayreh, Mamdouh Alenezi, Mohammed Zarour, and Kenza Meridji: "A reference measurement framework of software security product quality (SPQNFSR)." IET Information Security, 2021.
ISI	Mohammad Zarour, Mamdouh Alenezi, Amal Krishna Sarkar, Alka Agrawal, Rajeev Kumar, and Raees Ahmad Khan: "Healthcare Data Breaches: Insights and Implications." Healthcare 2020, 8(2), 133
ISI	Celestine Iwendi, Suleman Khan, Joseph H. Anajemba, Mohit Mittal, Mamdouh Alenezi, Mamoun Alazab: "The Use of Ensemble Models for Multiple Class and Binary Class Classification for Improving Intrusion Detection Systems." Sensors 2020, 20(9), 2559
ISI	Alka Agrawal, Mamdouh Alenezi, Rajeev Kumar, and Raees Ahmad Khan: "Measuring the Sustainable-Security of Web Applications Through a Fuzzy-Based Integrated Approach of AHP and TOPSIS." IEEE Access, Volume 7, pp. 153936 - 153951 November 2019.

Scopus	Alka Agrawal, Mamdouh Alenezi , Rajeev Kumar, and Raees Ahmad Khan: "A source code perspective framework to produce secure web applications." Computer Fraud & Security, Volume 2019, Issue 10, pp. 11 - 18 October 2019.
Scopus	Alka Agrawal, Mohammad Zarour, Mamdouh Alenezi , Rajeev Kumar, and Raees Ahmad Khan: "Security durability assessment through fuzzy analytic hierarchy process." PeerJ Computer Science, 5:e215 September 2019.
Scopus	Alka Agrawal, Mamdouh Alenezi , Dharendra Pandey, Rajeev Kumar, and Raees Ahmad Khan: "Usable-Security Assessment Through A Decision Making Procedure." ICIC Express Letters, Part B: Applications, Volume 10, Number 8, pp. 665 - 672 July 2019.
ISI	Rajeev Kumar, Mohammad Zarour, Mamdouh Alenezi , Alka Agrawal, and Raees Ahmad Khan: "Measuring Security Durability of Software through Fuzzy-Based Decision-Making Process." International Journal of Computational Intelligence Systems, Volume 12, Number 2, pp. 627 - 642 June 2019.
Scopus	Attig ur Rehman Jaffar, Muhammad Nadeem, Mamdouh Alenezi , and Yasir Javed: "Using Public Vulnerabilities Data to Self-Heal Security Issues in Software Systems." ICIC Express Letters, Volume 13, Number 7, pp. 557 - 567 July 2019.
Scopus	Alka Agrawal, Mamdouh Alenezi , Suhel Ahmad Khan, Rajeev Kumar, Raees Ahmad Khan: "Multi-level Fuzzy System for Usable-Security Assessment." Journal of King Saud University-Computer and Information Sciences (2019).
Scopus	Mamdouh Alenezi , Muhammad Usama, Khaled Almustafa, Waheed Iqbal, Muhammad Ali Raza, and Tanveer Khan: "An Efficient, Secure, and Queryable Encryption for NoSQL-Based Databases Hosted on Untrusted Cloud Environments." International Journal of Information Security and Privacy (IJISP), Volume 13, Issue 2, pp. 14 - 31 (2019).
Scopus	Md Tarique Jamal Ansari, Dharendra Pandey, and Mamdouh Alenezi : "STORE: Security Threat Oriented Requirements Engineering Methodology." Journal of King Saud University - Computer and Information Sciences (2018).
ISI	Muhammad Abdullah, Saad Khan, Mamdouh Alenezi , Khaled Almustafa, and Waheed Iqbal: "Application Centric Virtual Machine Placements to Minimize Bandwidth Utilization in Datacenters." Intelligent Automation and Soft Computing.
ISI	Iman Almomani and Mamdouh Alenezi : "Efficient Denial of Service Attacks Detection in Wireless Sensor Networks." Journal of Information Science and Engineering Vol. 34, No. 4 (2018), pp. 977 - 1000.
Scopus	Mamdouh Alenezi , Khaled Almustafa and Khalim Amjad Meerja: "Cloud based SDN and NFV architectures for IoT infrastructure." Egyptian Informatics Journal (2018).
Scopus	Mamdouh Alenezi , Khaled Almustafa and Mohamed Hussein: "On Virtualization and Security-Awareness Performance Analysis in 5G Cellular Networks." Journal of Engineering Science and Technology Review Vol. 11, No. 1 (2018), pp. 199 - 207.
Scopus	Thamer Alhamed and Mamdouh Alenezi : "Business Continuity Management & Disaster Recovery Capabilities in Saudi Arabia ICT Businesses." International Journal of Hybrid Information Technology Vol. 9, No. 11 (2016), pp. 99-126.
Scopus	Mamdouh Alenezi , "Software Architecture Quality Measurement Stability and Understandability." International Journal of Advanced Computer Science and Applications(IJACSA), Volume 7 Issue 7, pp. 550-559 (2016)
ISI	Ibrahim Abunadi and Mamdouh Alenezi : "An Empirical Investigation of Security Vulnerabilities within Web Applications." Journal of Universal Computer Science Vol. 22, No. 4, pp. 537-551 (2016).
Scopus	Mamdouh Alenezi and Fakhry Khellah. "Evolution Impact on Architecture Stability in Open-Source Projects." International Journal of Cloud Applications and Computing (IJCAC) 5.4 (2015): 24-35.
Scopus	Mamdouh Alenezi and Khaled Almustafa: "Empirical Analysis of the Complexity Evolution in Open-Source Software Systems" International Journal of Hybrid Information Technology (IJHIT), Vol.8, No.2, 2015.
Scopus	Mamdouh Alenezi and Kenneth Magel: "Empirical Evaluation of A New Coupling Metric: Combining Structural and Semantic Coupling." International Journal of Computers and Applications 36(1) (2014).

CONFERENCE PROCEEDINGS

Springer	Yasir Javed, Qasim Ali Arian, and Mamdouh Alenezi : "SecurityGuard: An Automated Secure Coding Framework." 3rd International Conference on Intelligent Technologies and Applications INTAP 2020, September 2020, Gjøvik, Norway
ACM	Wajdi Aljedaani, Yasir Javed, and Mamdouh Alenezi : "LDA Categorization of Security Bug Reports in Chromium Projects." ESSE 2020 : European Symposium on Software Engineering, November 2020, Pages 154–161, Roma, Italy
ACM	Wajdi Aljedaani, Yasir Javed, and Mamdouh Alenezi: "Open Source Systems Bug Reports: Meta-Analysis." ICBDE '20: Proceedings of the 2020 The 3rd International Conference on Big Data and Education, April 2020, Pages 43–49
Springer	Mohammad Zarour, Mamdouh Alenezi , Maurice Dawson, and Izzat Alsmadi: "Toward Effective Cybersecurity Education in Saudi Arabia." 17th International Conference on Information Technology–New Generations (ITNG 2020), April 2020 Pages 79–85.
ACM	Mohammad Zarour, Mamdouh Alenezi , Khalid Alsarayrah: "Software Security Specifications and Design: How Software Engineers and Practitioners Are Mixing Things up." EASE '20: Proceedings of the Evaluation and Assessment in Software Engineering, April 2020 Pages 451–456.
ACM	Mamdouh Alenezi , Hamid Abdul Basit, Faraz Idris Khan, Maham Anwar Beg: "A Comparison Study of Available Software Security Ontologies." EASE '20: Proceedings of the Evaluation and Assessment in Software Engineering, April 2020 Pages 499–504.
Springer	Mamdouh Alenezi and Faraz Idris Khan: "Context-Sensitive Case-Based Software Security Management System." 3rd Computational Methods in Systems and Software 2019.
Springer	Mamdouh Alenezi and Iman Almomani: "Empirical Analysis of Static Code Metrics for Predicting Risk Scores in Android Applications." 5th International Symposium on Data Mining Applications (SDMA2018), Riyadh, Saudi Arabia.
IEEE	Mamdouh Alenezi and Iman Almomani: "Abusing Android Permissions: A Security Perspective." 2017 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Amman, Jordan.
Elsevier	Khaled Almustafa and Mamdouh Alenezi : "Cost Analysis of SDN/NFV Architecture over 4G Infrastructure." The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2017), Lund, Sweden.
IEEE	Mamdouh Alenezi , Mohammed Akour, Alaa Hussien, and Mohammad Z. Al-Saad: "Test Suite Effectiveness: An Indicator for Open Source Software Quality." The 2nd International Conference on Open Source Software Computing (OSSCOM 2016), Beirut, Lebanon
IEEE	Mamdouh Alenezi and Yasir Javed: "Open Source Web Application Security: A Static Analysis Approach." International Conference on Engineering & MIS 2016 (ICEMIS'16), Agadir, Morocco.
Elsevier	Yasir Javed and Mamdouh Alenezi : "Defectiveness Evolution in Open Source Software Systems." 4th Symposium on Data Mining Applications (SDMA 2016), Riyadh, Saudi Arabia.
IEEE	Khaled Almustafa and Mamdouh Alenezi : "Dynamic Evolution of Source Code Topics." The Tenth International Conference on Software Engineering Advances (ICSEA 2015), Barcelona, Spain.
ACM	Ibrahim Abunadi and Mamdouh Alenezi : "Towards Cross Project Vulnerability Prediction in Open Source Web Applications." International Conference on Engineering & MIS 2015 (ICEMIS'15), Istanbul, Turkey.
ACM	Mamdouh Alenezi and Mohammad Zarour: "Modularity Measurement and Evolution in Object-Oriented Open-Source Projects." International Conference on Engineering & MIS 2015 (ICEMIS'15), Istanbul, Turkey.
ACM	Mamdouh Alenezi and Fakhry Khellah: "Architectural Stability Evolution in Open-Source Systems." International Conference on Engineering & MIS 2015 (ICEMIS'15), Istanbul, Turkey.
IEEE	Mamdouh Alenezi , Shadi Banitaan, and Qasem Obeidat: "Fault-Proneness of Open Source Systems: An Empirical Analysis." International Arab Conference on Information Technology (ACIT 2014), Nizwa, Oman.

Services

Conference Chair

- 5th International Symposium on Data Mining Applications (SDMA2018)
- 6th International Conference on Data Science and Machine Learning Applications (CDMA 2020)

Program Committee Membership

- Workshop on Machine Learning for Predictive Models (MLPM 2014), 13th IEEE International Conference on Machine Learning and Applications (ICMLA 2014).
- International Conference on Computing and Informatics (ICOCI 2015).
- The Third Information Systems International Conference (ISICO 2015).
- The Tenth International Conference on Software Engineering Advances (ICSEA 2015).
- International Conference on Computing Education and Information Technology (ICCEIT 2015).
- Workshop on Machine Learning for Predictive Models in Engineering Applications (MLPMEA 2015), 14th IEEE International Conference on Machine Learning and Applications (ICMLA 2015).
- International Conference on Computing Education and Information Technology (ICCEIT 2015).
- The 7th International Conference on Information and Communication Systems (ICICS 2016).
- The 4th Symposium on Data Mining Applications (SDMA 2016).
- The 4th Saudi International Conference on Information Technology, Big Data Analysis (KACSTIT2016).
- The Eleventh International Conference on Software Engineering Advances (ICSEA 2016).
- Special Session: Machine Learning for Predictive Models in Engineering Applications, The 18th IEEE International Conference on Machine Learning and Applications (ICMLA 2019).

Reviewer of International Indexed Journals

- International Journal of Cloud Applications and Computing (IJCAC).
- KSII Transactions on Internet and Information Systems.
- Journal of Ambient Intelligence and Humanized Computing.
- International Journal of Software Engineering and Knowledge Engineering.
- Information and Software Technology.
- Journal of Information Security and Applications.
- ACM Computing Surveys.
- Education and Information Technologies

Master Students Supervision

- Hussain Alshehri - Internet of Things - Architecture of Multiple Sources Data Acquisition Sensors
- Sultan Alotaibi - An exploratory study of DevOps Awareness and Adoption in Saudi Arabia
- Abdulrahman Asiri - Cloud-based Cross-enterprise Imaging Framework
- Thamer Alhamed - Measuring the Capability of Business Continuity Management & Disaster Recovery in the Kingdom of Saudi Arabia ICT Companies
- Turki Alshammary - Software Architecture Understandability in Object-Oriented Systems
- Hassan Al-Mousa - Software Architecture Stability Evolution in Open Source Object-Oriented Systems
- Laila Al-Rowais - Framework for Security Testing of Web Applications
- Khawlah AlOmar - Static Analysis of Open-Source Web Applications