

## Academic Resume



### Emad Albassam

#### Assistant Professor, Computer Science Department

Emad Albassam received the B.S. degree in computer science from King Abdulaziz University in 2007. He received the M.S, and Ph.D. degrees in software engineering and information technology with software engineering concentration, respectively, from George Mason University, Fairfax, Virginia. Since 2017, he has been an Assistant Professor with the Computer Science Department at King Abdulaziz University. He is currently the Vice Dean for Applications at the Deanship of Information Technology.

#### Contact Information.

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#### Highest Degree.

2017, , Software Engineering, George Mason University, USA.

#### Academic and Professional Experiences.

1. **2018 - 2023**  
Vice Dean for Applications at Deanship of Information Technology, , .
2. **2017 - Present**  
Vice Dean for Applications, Jeddah, Saudi Arabia, Deanship of Information Technology, King Abdulaziz University, , .
3. **2017 - Present**  
Assistant Professor, Jeddah, Saudi Arabia, Faculty of Computing and Information Technology, King Abdulaziz University.
4. **2017 - 2018**  
General Supervisor of Academic Applications, Jeddah, Saudi Arabia, Deanship of Information Technology, King Abdulaziz University.
5. **2014 - 2014**  
Teaching Assistant, Fairfax, VA, USA, Volgenau School of Engineering, George Mason University.
6. **2007 - 2017**  
Teaching Assistant at the Deanship of Information Technology, Jeddah, Saudi Arabia, King Abdulaziz University.

#### Research Interests.

Video Game Design and Development, Legacy Software System Modernization, Autonomic Computing, Software Product Lines.

#### Teaching Interests.

Software Analysis and Design, Software Product Lines, Autonomus Software Systems, Video Game Development.

## **Certifications and Trainings.**

## **Social, Scientific and Professional Affiliation.**

## Publications.

1. Emad Albassam, "A Black-Box Computational Business Rules Extraction Approach Through Test-Driven Development", The Journal Tehni?Ki Glasnik - Technical Journal, 2023.
2. Jason Porter, Emad Albassam, "A Decentralized Self-Configuration, Self-Healing, Self-Protection And Self-Optimization Framework For Distributed Component-Based Software Systems", Icsca &#039;&#039;21: Proceedings Of The 2021 10th International Conference On Software And Computer Applications, 2021.
3. Emad Albassam, "A Hybrid Approach For Recovering Use Case Models Of Mvc Web Applications", International Transaction Journal Of Engineering, Management, & Applied Sciences & Technologies, 2021.
4. Abrar Mubarak Munef, Wajdi Al Jedaibi, Emad Albassam, "Evaluating And Improving The User Experience (Ux) Of Organization Workflow", Ijarce, vol: 10, 2021.  
DOI: [10.17148/IJARCE.2021.10203](https://doi.org/10.17148/IJARCE.2021.10203)
5. Sultan Algarni, Fathy Eassa, Khalid Almarhabi, Abdulllah Almalaise, Emad Albassam, Khalid Alsubhi, Mohammad Yamin, "Blockchain-Based Secured Access Control In An Iot System", Applied Sciences, vol: 11, pp. 1772, 2021.  
DOI: [10.3390/app11041772](https://doi.org/10.3390/app11041772)
6. Emad Albassam, Jason Porter, "A Decentralized Self-Optimization Approach For Distributed Component-Based Software Systems", Icsca 2021: 2021 10th International Conference On Software And Computer Applications, pp. 124-130, 2021.  
DOI: [10.1145/3457784.3457802](https://doi.org/10.1145/3457784.3457802)
7. Jason Porter, Emad Albassam, "A Decentralized Approach To Architecture-Based Self-Protecting Software Systems", 2020 10th Annual Computing And Communication Workshop And Conference (Ccwcc), pp. 0169-0175, 2020.  
DOI: [10.1109/CCWC47524.2020.9031205](https://doi.org/10.1109/CCWC47524.2020.9031205)
8. K. Alsubhi, F. Alsolami, A. Algarni, E. Albassam, M. Khemakhem, F. Eassa, K. Jambi, M. Usman Ashraf, "A Tool For Translating Sequential Source Code To Parallel Code Written In C++ And Openacc", 2019 Ieee/Acs 16th International Conference On Computer Systems And Applications (Aiccsa), pp. 1-8, 2019.  
DOI: [10.1109/AICCSA47632.2019.9035292](https://doi.org/10.1109/AICCSA47632.2019.9035292)
9. Jason Porter, Daniel A. Menasce, Hassan Gomaa, Emad Albassam, "Tess Automated Performance Evaluation Of Self-Healing And Self-Adaptive Distributed Software Systems", Icpce &#039;&#039;18: Acm/Spec International Conference On Performance Engineering, pp. 40-47, 2018.  
DOI: [10.1145/3184407.3184408](https://doi.org/10.1145/3184407.3184408)
10. Hassan Gomaa, Emad Albassam, "Run-Time Software Architectural Models For Adaptation, Recovery And Evolution", 12th International Workshop On Models@Run.Time, 2017.
11. Emad Albassam, Hassan Gomaa, Daniel A. Menasc , "Model-Based Recovery And Adaptation Connectors: Design And Experimentation", vol: 743, pp. 108-131, 2017.  
DOI: [10.1007/978-3-319-62569-0\\_6](https://doi.org/10.1007/978-3-319-62569-0_6)
12. Emad Albassam, Hassan Gomaa, Daniel A. Menasce, "Variable Recovery And Adaptation Connectors For Dynamic Software Product Lines", Proceedings Of The 21st International Systems And Software Product Line Conference, 2017.
13. Emad Albassam, Jason Porter, Hassan Gomaa, Daniel A. Menasce, "Dare: A Distributed Adaptation And Failure Recovery Framework For Software Systems", 4th International Conference On Autonomic Computing (Icac), 2017.
14. Emad Albassam, Hassan Gomaa, Daniel Menasce, "Model-Based Recovery Connectors For Self-Adaptation And Self-Healing", Proceedings Of The 11th Intl. Joint Conf. On Software Technologies, 2016.

## **Publications.**

15. Emad Albassam, Hassan Gomaa, Robert G. Pettit, "Experimental Analysis Of Real-Time Multitasking On Multicore Systems", Proceedings Of The 17th International Symposium On Object/Component/Service-Oriented Real-Time Distributed Computing (Isorc), 2014.
16. Emad Albassam, Hassan Gomaa, "Applying Software Product Lines To Multiplatform Video Games", Proceedings Of The 3rd International Workshop On Games And Software Engineering (Gas), 2013.