

Curriculum Vitae

Mohammad Kamel Kharabsheh, Ph.D.

Associate Professor - Computer Information Systems Department
Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology

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EDUCATION

Postgraduate

PhD in Computer Science, University of Leicester. PhD viva exam passed on 14-March-2014. Thesis's title "*Compressed Representation of XML Documents with Rapid Navigation*". Supervisions: Prof Rajeev Raman and Prof Rick Thomas.

Master degree in Computer Science, Faculty of Computer and Information Technology, Jordan University of Science and Technology, Irbid- Jordan (2007). The MSc thesis's title was "*Mining Association Rules Based on User Defined Constraints*".

Undergraduate

Bachelor in Computer Science. Faculty of Information Technology, Al-Yarmouk University, Irbid – Jordan(2004).

WORK EXPERIENCE

Nov 2020 – Now: Associate Professor (The Hashemite University / Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology / Computer Information System Department).

Sept 2017 – Now: Vice Dean (The Hashemite University / Deanship of Academic Developments and International Outreach)

Sept 2021 – May 2022: Visiting Research Scholar (University of Detroit Mercy) Detroit, USA

Oct 2015 – Aug 2017: Assistant Dean (The Hashemite University / Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology / Computer Information System Department).

Feb 2015 – Oct 2020: Assistant Professor (The Hashemite University / Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology / Computer Information System Department).

Sept 2009- June 2014: Teaching and Research Assistant at University of Leicester/ Computer Science Department. Leicester. UK.

Oct 2009- June 2013: Lecturer at Midlands Academy of Business and Technology. Leicester. UK.

July 2006 – Sept 2009: Computer lab supervisor and a lecturer of some courses in Al Balqa Applied University / Al Huson College / Computer Science Department.

Feb 2008 – Jun 2008: Part time lecturer (The Hashemite University / Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology / Computer Science Department)

Feb 2008 – Jun 2008: Part time lecturer (Jordan University of Science and Technology/ Faculty of Computer and Information Technology/Computer Information System Department).

Feb 2006 – Jun 2006: Part time teacher (Sal Secondary school) Ministry of Education.

Feb 2005 – Jun 2007: Bayt Al-Manhal Center : Teacher (Management Information System).

PUBLICATIONS

- Hassan Najadat and **Mohammad Kharabsheh**, "User Constraints in discovering Association Rules Mining", *In the proceedings of International Arab Conference on Information Technology (ACIT'2008), University of Sfax, Tunisia, December 2008.*
- **Mohammad Kharabsheh** at University of Leicester- Computer Science Department. Title "Highly Compressed In Memory Representation of XML Documents", 18 Feb 2010.

Mohammad Kharabsheh at 28th *British National Conference on Databases, BNCOD 2011*, the University of Manchester, United Kingdom *12th - 14th July 2011.*

- Aljammal, A. H., Bani-Salameh, H., Alsarhan, A., **Kharabsheh, M.**, & Obiedat, M. (2017). Node Verification to Join the Cloud Environment Using Third Party Verification Server. *International Journal of Interactive Mobile Technologies (IJIM)*, *11(4)*, 55-65.
- **Kharabsheh, Mohammad** & Alzyoud, Sukaina. (2017). Classification of Nicotine Dependence with a Machine Learning Approach. *International Health Conference 2017, At Oxford (UK)*
- **Mohammad Kharabsheh**, Omar Meqdadi, Mohammad Alabed, Sreenivas Veeranki, Ahmad Abbadi and Sukaina Alzyoud, "A Machine Learning Approach for Predicting

Nicotine Dependence” *International Journal of Advanced Computer Science and Applications(IJACSA)*, 10(3), 2019.

- Alaa Al-Nusirat, Feras Hanandeh , **Mohammad Kharabsheh**, Mahmoud Al-Ayyoub and Nahla Al-dhufairi. “Dynamic Detection of Software Defects Using Supervised Learning Techniques” *International Journal of Communication Networks and Information Security (IJCNIS)*, Vol. 11, No. 1, April 2019.
- Jihad Alzyoud, **Mohammad Kharabsheh**, Sukaina Alzyoud and Eman Alzbon. (2019). Use of Healthcare Informatics Applications and Data for Research Purposes by Students: Opportunities and Challenges in Jordan. *2019 IEEE 89th Vehicular Technology Conference (VTC2019-Spring)*, 1-6.
- Aljawabrah N., Gergely T., **Kharabsheh M.** (2019) Understanding Test-to-Code Traceability Links: The Need for a Better Visualizing Model. In: Misra S. et al. (eds) *Computational Science and Its Applications – ICCSA 2019. ICCSA 2019. Lecture Notes in Computer Science, vol 11622. Springer, Cham.*
- Sukaina Alzyoud, **Mohammad Kharabsheh**, and Rola Mudallal, “Predicting Depression Level of Youth Smokers Using Machine Learning” *International Journal of Scientific & Technology Research (IJSTR)*, Vol. 11, No. 1, April 2019.
- **Mohammad Kharabsheh**, Najeeb AbuAlsha’ar, and Mahmoud Al-Ayyoub, “A Comparative Decision Support Systems for Water Resources Management” *International Review of Automatic Control (I.R.E.A.CO)*, Vol. 12, No. 5, September 2019.
- **Mohammad Kharabsheh**, Ahmad Qawasmeh, Omar Megdadi, Nadera Jawabreh, Rola Mudallal and Sukaina Alzyoud, “A Critical Analysis of the Relationship Between Depression and Smoking Using Machine Learning” *International Journal of Scientific & Technology Research (IJSTR)*, Vol. 8, No. 12, December 2019.
- Qawasmeh, Ahmad, Salah Taamneh, Ashraf H. Aljammal, Nabhan Hamadneh, Mustafa Banikhalaf, and **Mohammad Kharabsheh**. “Parallelism exploration in sequential algorithms via animation tool” *Multiagent and Grid Systems 17, no. 2 (2021): 145-158.*
- **Mohammad Kharabsheh**, Shadi Banitaan, Hakam W. Alomari, Mohammad Alshirah and Sukaina Alzyoud “Respiratory failure in COVID-19 patients a comparative study of smokers to nonsmokers.” *Indonesian Journal of Electrical Engineering and Computer Science 27.2 (2022): 1127-1137.*
- **Mohammad Kharabsheh**, Issa Al-Aiash, Ala Mughaid and Muder Almiani “The SEIR Model for Predicting Malware Propagation in Computer Networks” *2024 International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS)*.

- **Mohammad Kharabsheh**, Ali Alsarhan, Nadera Aljawabrah, Hind Milhem, Hebah Alquran, and Shadi Banitaan. "Data-Driven Insights into Vaccine Hesitancy: A Machine Learning Analysis of Health, Lifestyle, and Socioeconomic Factors." *Int. J. Advance Soft Compu. Appl* 17, no. 2 (2025).
- **Mohammad Kharabsheh**, Shadi AlZu'bi, Ali Alsarhan, Ala'A. Mughait, Nadera Aljawabreh, and Mohammad Alabdullatif. "A Comprehensive Machine Learning Approach for Email and URL Threat Detection Using Feature Importance Analysis." *Int. J. Advance Soft Compu. Appl* 17, no. 2 (2025).
- Mahmoud Baniata, Suhaila Abuowaida, Mohammad Aljaidi, **Mohammad Kharabsheh**, Ayoub Alsarhan, Amjad A. Alsuwaylimi. "A Multi-Modal Attention-Guided Network for Alzheimer's Disease Classification Using Deep Learning". *Engineering, Technology & Applied Science Research*. Vol. 15, No. 5, 2025, 27150-27158.

FUNDED RESEARCH PROJECTS

- Member in Erasmus Plus funded project (€989K), Development of Health informatics integrated curricula in computing and health-oriented undergraduate degrees (HiCure), from 15 October 2015 until 31 January 2019.

ACADEMIC ACTIVITIES

- Jordan - Tobacco Control Research Group (Member)
- Reviewer, IEEE International Conference on Computer Systems and Applications.
- Reviewer, Medical Informatics Europe conference.

CERTIFICATES

- Certified Quality Assessor - The Accreditation & Quality Assurance Commission/ Jordan.
- Higher Education – Hashemite University
- Higher Education Learning Strategies in 21st Century – British Council and Plymouth University.
- Planning, Delivering and Monitoring an Academic Professional Development Program - British Council and Plymouth University.
- Leadership and Management - British Council and Plymouth University.

RESEARCH INTEREST

- Applications of Artificial Intelligence and Machine Learning
- Data Mining.
- Health Informatics.
- Database Management Systems.
- In-Memory Representation of XML Documents.
- Data Compression.

TRAINING COURSES

1- Course in Oracle 8i.

- Introduction to oracle SQL & PL/SQL.
- Develop PL/SQL Program Units.
- Oracle forms developer.

2- Course in C++.

3- Course in Photoshop.

4- ICDL Certification.

5- Journalism Skills.

6- Communication Skills.

7- Software Quality Assurance.

MEMBERSHIP AND AWARDS

- Research Member of Jordan - Tobacco Control Research Group.
- Member of the Jordanian Accreditation Committees for the IT curricula.
- Member of the Jordanian Committees for writing the IT Jordanian national exam
- Member of the Curricula Committees at the Hashemite University
- Member of the Institutional Review Board at the Hashemite University
- Member of the Higher Committee for Simplifying the Procedures at the Hashemite University.
- Member of the Quality Assurance & Quality Control committee at the Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology/ Hashemite University.
- Member of the **ABET** accreditation committee at the Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology/ Hashemite University.
- Member of the Graduation Projects committee at the Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology/ Hashemite University.
- Member of the Students Investigation committee at the Faculty of Prince Al-Hussein Bin Abdullah II for Information Technology/ Hashemite University.
- Get the Cultural & Media Excellence Award Al-Yarmouk University

COURSES TAUGHT

Undergraduate

- C++ Programming.
- Compression Methods for Multimedia.
- Operating System.
- Distributed Systems.
- Digital Computer Design.
- Databases and Web Applications.
- Database Administration.
- Software development and Web Design.
- Using IT Tools in Management.

- Project Management.
- Management Information System.
- Geographic Information System
- Data Exchange Standards

Postgraduate

- C++ Programming and Advanced Algorithm.
- Web Technologies.
- Software Development Innovation.

LANGUAGE

- Arabic-mother tongue.
- English- highly proficient.

REFEREES

- Dr. Shadi Banitaan. University of Detroit Mercy- Detroit-MI, USA, P#: 313-993-1163, e-mail: banitash@udmercy.edu.
- Dr. Hakam Alomari, Miami University- Oxford-OH, USA, P#: 513-529-0356, e-mail: alomarhw@miamioh.edu.
- Dr. Sukaina Alzyoud, Tobacco Control Research Group. The Hashemite University. Zarqa, Jordan, P#: (+962) 79998 6265, e-mail: sukaina-alzyoud@hu.edu.jo.