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▼ Education

Ph.D. Kharkov State Poly-technical, University, Kharkov Ukraine 2001.

Title of Ph.D. Dissertation:

"Models and Information Technologies for Legacy Information Management System Reengineering"

Specialty: **Computer Engineering.**

B.Sc. Kharkov State Poly- Technical University, Ukraine 1992.

Specialty: **Computer Engineering.**

▼ Professional Experience (Academia)

2022 – Present • Jerash University

Professor, Computer Science Department, Faculty of Information Technology.

2018 – 2022 • Jerash University

Dean of Faculty of Information Technology.

2014 – 2018 • Jerash University

Associate Professor, Computer Science Department, Faculty of Information Technology.

2009 – 2014 • Jerash University

Assistant Professor, Computer Science Department, Faculty of Information Technology, Head of Computer Science Department.

2008 – 2009 • AL- Isra Private University

Assistant Professor, Management Information System Department

2001 – 2008 • Irbid National University

Assistant Professor, Computer Science Department, Faculty of Information Technology, Head of Computer Science Department

▼ Publications in Refereed Journals:

- Bassam Mohammad Elzaghmouri,**Ahmad Khader Habboush**, Lucy Dash , Binod Kumar Pattanayak, Ahmed Abdelgader Osman, Mohammed Awad Ataelfadiel, Asef Al-Khateeb, "Architecture and Technologies of 6G Network" ,Journal of Southwest Jiaotong University, Volume 59 , Issue 1, Feb 2024.
- Bassam Mohammad Elzaghmouri,**Ahmad Khader Habboush**, Marwan Abu-Zanona Suprava Ranjan Laha, Binod Kumar Pattanayak, Saumendra Pattnaik, Bibhuprasad Mohanty," Securing Industrial IoT Environments through Machine Learning-Based Anomaly Detection in the Age of Pervasive Connectivity ", International Journal of Intelligent Systems and Applications in Engineering (IJISAE), ISSN 1247-6799, Volume 12, Issue 2, Jan 2024.
- **Ahmad Khader Habboush** , Bassam Mohammed Elzaghmouri, Binod Kumar Pattanayak , Saumendra Pattnaik, Rami Ahmad Habboush, " An End-to-End Security Scheme for Protection from Cyber Attacks on Internet of Things (IoT) Environment ", Tikrit Journal of Engineering Sciences, ISSN 2312-7589, Volume 30, NO. 4, Dec 2023.
- Bassam Mohammad Elzaghmouri,**Ahmad khader habboush**," Security Life Cycle framework for Exploring & Prevention of Zero day attacks in Cyberterrorism", International Journal of Computer and Communication Technology, ISSN 2231-0371, Volume 9, Issue 1, Jul 2023.
- Padmini Mansingh, Binod Kumar Pattanayak, Bibudhendu Pati, Bassam Elzaghmouri and **Ahmad Khader Habboush** ," PREMORBID BRAIN VOLUME AGAINST ALZHEIMER'S DISEASE USING BIG MEDICAL DATA ANALYSIS",ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608, Volume 18, Issue 8, Apr 2023.
- Jagadev, Nibedita Pattanayak, Binod **Habboush, Ahmad** Elzaghmouri, Bassam Shugran, Mahmoud. (2023). Adaptive Bandwidth Management Model for Wireless Mobile Ad-hoc Network. International journal of Computer Networks & Communications. 15. 87-102. 10.5121/ijcnc.2023.15106.
- Pati Abhilash, Manoranjan Parhi, Mohammad Alnabhan, Binod Kumar Pattanayak, **Ahmad Khader Habboush**, and Mohammad K. Al Nawayseh. 2023. "An IoT-Fog-Cloud Integrated Framework for Real-Time Remote Cardiovascular Disease Diagnosis" Informatics 10, no. 1: 21. 2023.
- Mohammed S Atoum, Abhilash Pati, Manoranjan Parhi, Binod Kumar Pattanayak, **Ahmad Khader Habboush**, Mohammad Alnabhan, Emad Qalaja, "A Fog-Enabled Framework for Ensemble Machine Learning-Based Real-Time Heart Patient Diagnosis," International Journal of Engineering Trends and Technology, vol. 71, no. 8, pp. 39-47, 2023. Crossref, <https://doi.org/10.14445/22315381/IJETT-V71I8P204>
- Alnabhan, Mohammad **Habboush, Ahmad** Abu Al-Haija, Qasem & Mohanty, Arup & Pattnaik, Saumendra & Pattanayak, Binod. (2022). Hyper-Tuned CNN Using EVO Technique for Efficient Biomedical Image Classification. Mobile Information Systems. 2022. 1-12. 10.1155/2022/2123662.

- **Ahmad Khader Habboush**, 2019. "Hot Spot Phenomenon and Greedy Routing Failure in Mobile Ad-hoc Networks," Modern Applied Science, Canadian Center of Science and Education, vol. 13(4), pages 1-89, April.
- **A. K. Habboush**, "Ant Colony Optimization (ACO) Based MANET Routing Protocols: A Comprehensive Review," Comput. Inf. Sci., vol. 12, no. 1, p. 82, 2019, doi: 10.5539/cis.v12n1p82.
- M. Alnabhan, S. Alsaraireh, B. K. Pattanayak, **A. K. Habboush**, and M. Hammad, "Performance analysis and enhancement of position-based routing protocols in MANETS," Int. J. Knowledge-Based Intell. Eng. Syst., vol. 23, no. 2, pp. 109–120, 2019, doi: 10.3233/KES-190404.
- Ali al-yousef, Yousef Aljaraideh, Eyad Barakat, Mamoon obiedat, **Ahmad habboush** , " The Impact Of Using E-Learning On The Students Performance In 3rd Developing Countries: A Pilot Study" 2019, International Journal of Engineering and Technology (IJET), ISSN: 2319-8613 e-ISSN: 0975-4024.
- **Ahmad Habboush**, Mahmoud AlShugran," An Enhanced Queue Management Approach For Greedy Routing in MANETs", Computer and Information Science, Published by Canadian Center of Science and Education, , ISSN 1913-8989 E-ISSN 1913-8997 Vol. 11, No 2 ,2018.
- **Ahmad Habboush**, " Multi-Level Encryption Framework", International Journal of Advanced Computer Science and Applications (IJACSA), ISSN:2156-5570 Vol. 9, No. 4, 2018.
- **Ahmad Habboush** Mohammad Alnabhan and Mohammad Otoum," ZigBee Nodes' EMI Immunity by Automatic Channel Selection Algorithm aper", International Journal of Computer Science and Information Security (IJCSIS), ISSN 1947-5500 Vol. 15, No. 3, March 2017.
- **Ahmad Habboush**, "FSK Modulation Based Image Steganography", Journal of Convergence Information Technology, ISSN: 1975-9320 Vol. 11, No1 ,2016.
- Mohammed Salem Atoum ,AhmadHabboush , "A Review Paper In Steganography Method that Using Message Integrity Techniques", International Journal of Applied Engineering Research, ISSN: 0973-4562 Vol. 10, No. 20,2015.
- Mohammad Alnabhan, **Ahmad Habboush**, Anas AL-Badareen, Mohammad Al-nawayseh, Bassam EL-Zaghmouri, (2014): An Evaluation Framework for Requirements Definition of Software Development, Journal of Convergence Information Technology, 9(3).
- **Ahmad Habboush**, Mohammad Alnabhan, Anas AL-Badareen, Mohammad Al-nawayseh, Bassam EL-Zaghmouri, (2014): Investigating Software Maintainability Development: A case for ISO 9126, International Journal of Computer Science Issues, 11 (2).
- Mohammad Alnabhan, **Ahmad Haboush**, Binod Kumar Pattanayak, Mohammad Alnawaiseh, Anas AL-Badareen, (2014): Emerging Trends in Intrusion Detection in Mobile Ad-Hoc Networks (MANETs), Information Technology Journal, 13 (13), pp.2065-2078.
- **Ahmad KhaderHabboush**, "A Hybrid Modified Semantic Matching Alogrithm Based on

instances Detection With Case Study on Renewable Energy";: International Journal of Engineering Trends and Technology, Volume 8 Number 1- Feb 2014.

- Alnabhan, M., **Habobush, A.**, AL-Saraireh, J., Mattar, N. (2012): A Preliminary Evaluation Study for M-learning Services and Implications for Future Design. World of Computer Science and Information Technology Journal (WCSIT), ISSN: 2221-0741 Vol. 2, No. 1, pp.13-17, 2012.
- **Ahmad KhaderHabboush**, "Handling Safety-Related Requirements in Critical Systems Product Lines ", Computer and Information Science; (Vol. 6, No. 4; 2013), ISSN 1913-8989 E-ISSN 1913-8997, Published by Canadian Center of Science and Education
- **Ahmad Habboush**, Ahmad Momani, Maryam AL-Zoubi , MotassemTarazi, "Arabic Text Summerization Model Using Clustering Techniques" World of Computer Science and Information Technology Journal (WCSIT), ISSN: 2221-0741 Vol. 2, No. 3,62-67,2012.
- **Ahmad Habboush**, Ahmad Momani, Maryam AL-Zoubi , MotassemTarazi, "Arabic Text Summerization Model Using Clustering Techniques" World of Computer Science and Information Technology Journal (WCSIT), ISSN: 2221-0741 Vol. 2, No. 3,62-67,2012.
- **Ahmad Habboush**, Sami Qawasmeh." Parallel Sequential Searching Algorithm for Unsorted Array ". Research Journal of Applied Sciences 6(1):70-75,2011Medwell Journals, 2011.

▼ Publications: Conference Papers Published in Proceedings

- **Ahmad Habboush**, Mohammad Al Rawajbeh, Ahmed M. Manasrah, and Ra'ed M. Al-Khatib , " BioCloud: A Network Cloud-Computing Method for Predicting RNA Secondary Structure ", International Journal of Humanities and Applied Sciences (IJHAS) Vol. 5, No. 2, 2016 ISSN 2277 – 4386 ,2016
- **Ahmad Habboush** ,Mohammad AL Rawajbeh , "Advance object monitoring using wireless sensor network",international conference communication , management, and information technology "ICCMIT 15",April 20-22,2015 ,prague-Czech.
- Mohammad AL Rawajbeh , **Ahmad Habboush**, " Enhancing the e-Government Functionality using Knowledge Mangment", World Academy of Science Engineering and Technology 75 2011
- Mamoun S. Al Rababaa, **Ahmad k Habboush**, Ahmad A. Al Khateb., "Techniques of Symmetric BlockCipherring", proceedings of the International Conferenc on Information technology and Natural Science, Jordan,2003.
- Mamoun S. Al Rababaa, **Ahmad k Habboush**, "An application of Artificial Nural Networks", proceedings of 1st Scientific Conference of Mathematics and Computer, Irbid national University, 2003.
- Tkachuk.M .**Ahmad K Habboush** "Software Re- Engineering in a Distributed Environment", Reengineering Week 2000 Zurich 29 February thru 3 March 2000 Zurich,Switzerland.

▼ University and Community Service

1. Member of student's Affairs dean ship council
2. Member of the community service
3. Member of the preparation committee for the Arab world and the challenges of globalization conference, Irbid National University
4. Member of the social committee, Irbid National University
5. Member of the preparation committee for the scientific day, Jerash University
6. Member of the University council, Jerash University
7. Member of the community service committee, Jerash University
8. Member of the Quality assurance committee, Faculty of Science, Jerash University.
9. Member of the student election council in Irbid National University
10. Chairman of the proficiency examination committee, Irbid National University.
11. Member of the Faculty council – Irbid Private University

▼ Research Interest

- Artificial Intelligence.
- Introduction to Information Technology.
- Computer Networks.
- Digital Electronics
- Software Engineering.
- Information Security.