AHMAD H. AL-ABADLEH

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RESEARCH INTERESTS

- Machine Learning- ANN, KNN, Fuzzy Logic, Deep Learning.
- Wireless Networking- Handoff, 3G, 4G, 5G.
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- Smartphone Technology- Smart Devices Sensors.
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- Indoor Localization- fingerprinting, Trituration, Smartphone-Based. Natural Language Processing
- Network Security.

EDUCATION

- 2011. 02 – 2014. 12 Department of Computer Science, KAIST, (Ph.D.): GPA (3.8 out of 4.3)
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- 2007. 08 – 2010. 02 Department of Computer Science, Jordan University, (M.S.): GPA (3.94 out of 4)
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- 1998. 08 – 2002. 06 Department of Computer Science, Mutah University, (B.SC.): GPA (79.88 %)

PROFESSIONAL EXPERIENCE

- 2017.05 – present Director of Computer Center at Mutah University.
- 2015.04 – present Assistant Professor / Department of Information Technology at Mutah University.
- 2010. 07 – 2011. 02 Lecturer / Department of Computer Science at Mutah University.
- 2002. 08 – 2010. 06 Lab Supervisor / Technical at Department of Computer Science at Mutah University (C++, Assembly, Data structure, Java, Object oriented programming, Database programming, Web design and developing).

PATENT

- Indoor Localization using physical map and smartphone sensors, Korea 10-2013-0039054.

PUBLICATIONS

- M. Alkassasbeh, A. Abadleh, and T. Ramadeen, "Shared Crossover Method for Solving Traveling Salesman Problem," IJICS, 2012.

- Abadleh, S. Han, S.J. Hyun., B. Lee, and M. Kim, "ILPS: Indoor Localization using Physical Maps and Smartphone Sensors," IEEE WoWMoM, 2014.

- Abadleh, S. Han, S.J. Hyun., B. Lee, and M. Kim, "Construction of Indoor Floor Plan and Localization," Wireless Network, 2015.

- Aljaafreh A, Alawasa K, Alja'afreh S, Abadleh A. Fuzzy Inference System for Speed

- Bumps Detection Using Smart Phone Accelerometer Sensor. Journal of Telecommunication, Electronic and Computer Engineering (JTEC). 2017 Sep 1;9(2-7):133-6.

- Al-Shboul, H. Alsawalqah, Y. Alshamaileh, H. Faris, I. Aljarah, and A. Abadleh, "A Proposed Index for Evaluating Component Commonality for Software Product Family," Proceedings of the New Trends in Information Technology (NTIT-2017), 2017.

- Abadleh, E.Al-Hawari, E. Alkafaween, and H. Alsawalqah,"Step Detection Algorithm For Accurate Distance Estimation Using Dynamic Step Length," IEEE MDM, 2017.

- Abadleh," Smartphone Based Distance Estimation Algorithm Using Dynamic Step Length ", International on communication antenna and propagation (IRECAP), praise worthy prize. (2018)

- Abadleh A , Alja'afreh S, Aljaafreh A, Alawasa K, A RSS-based Localization Method Using HMM-based Error Correction. Journal of Location Based Services. (2018)

- Abadleh A, Wi-Fi RSS-Based Approach for Locating the Position of Indoor Wi-Fi Access Point. International Review on Computers and Software, praise worthy prize (IRECOS). (2018)

- Mulhem,S, Ahmad,A, and Adi,W,"Accelerometer–Based Joint User-Device Clone Resistant Identity" ,in World Conference on Smart Trends in Systems, Security and Sustainability (WS4 2018), Oct, 2018.

- E. Hamadaqa, A. Abadlah, A. Mars, and W. Adi, " Highly Secured Implantable Medical Devices, " in IEEE 13th International Conference on Innovations in Information Technology (IIT), 2018.

- S. Alja'afreh, M. Alshamaileh, E. Almajali, and A. Abadleh, "A New Reconfigurable Antenna for Full-band Metal-Rimmed Smartphones' Applications, " in IEEE 3rd International Conference on Communications, Signal Processing, and their Applications ICCSPA, 2019.

PROJECTS

- Towards improved networks security campus at Mutah University.
- An Intelligent Methods for enhancing the archiving and registration system at Mutah University.

RESEARCH VISIT – DFG GRANT 2018 –

Technical University of Braunschweig, Germany: working on the project " Securing privacy on Indoor localization crowdsourcing approach"

COURSES

- Artificial Intelligence and Machine Learning.
- Computer Network.
- Programming languages.
- Database.
- Computer Algorithm.
- Wireless Networks.

THESES

- Indoor Localization using Smartphone Sensors.
- Distance Estimation using accelerometer.
- Detecting the Facebook's Fake account using Text Mining.
- Direction estimation using orientation sensor and Wi-fi RSS.
- Detecting the most appropriate keyword form a document using text mining.