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**Curriculum Vitae Form - Procedures of Appointment and Promotion Committee** 

# **CURRICULUM VITAE**

# **Mohammed Walid Mahmoud Elbes**

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#### 1. Personal Data

Date of Birth: 4/1/1980 Nationality: Jordanian

#### 2. Education

- Ph.D. in Computer Science, Western Michigan university–USA.
- Master in in Computer Science, Western Michigan university–USA.
- B.Sc. Computer Engineering, JUST University, Irbid, Jordan.

# 3. Ph.D. Dissertation

Rule-Based Precise Localization Services In Mobile Environments

# 4. Employment

#### **Academic Positions**

2012 - now Alzaytoonah University of Jordan Amman, Jordan

**Associate Professor** 

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#### **Responsibilities:**

Teaching Electronic Commerce, Human-Computer Interaction, Programming Languages,

System Programming, Network Programming, Algorithms, Multimedia Programming, and basic

computer skills in the department of Computer Science.

2010—2012

**Auxiliary Enterprises** 

Kalamazoo, MI

### **Programmer Analyst**

# **Responsibilities:**

- Developing .Net applications for the departments of WMU based on VB .Net/ASP/SQL
- Maintaining the previously developed applications at Auxiliary Enterprises
- This page <a href="http://www.wmich.edu/auxiliary/resources/index.html">http://www.wmich.edu/auxiliary/resources/index.html</a> has a list of projects that I participated in developing at AE.

2007 - 2010

**WMU** 

Kalamzoo. MI

#### **Research Assistant**

#### **Responsibilities**:

- Worked as a team member in a project with the Boeing company implementing the Particle Swarm Optimization algorithm for Trajectory Planning in Non-Autonomous Mobile Ad-Hoc Networks
- Worked as a team member in a project with Michigan Department of Transportation (MDoT) and developed an application that measures the quality of the ride using sensory data acquired from an accelerometer.

2007 - 2010

WMU

Kalamzoo, MI

#### **Teaching Assistant**

#### **Responsibilities:**

- Teaching Assistant in the department of Computer Science at WMU teaching Excel, Matlab and C language.
- Grading computer networks and network programming course in the computer science department.





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2004—2007

Jordan University of Science and Technology Irbid, Jordan

# Lab supervisor and Teaching Assistant in the department of Computer Engineering

#### **Responsibilities:**

- Team leader for the installation and maintenance of the E-learning system in the college of Information Technology using the free source Moodle software. This software replaced six digits blackboard software and provided same functionality after major customizations.
- Installation and maintenance of the HP high performance cluster (\$200,000) value and made it available for the students to run parallel programs.
- Trained the faculty in the English department in Jordan University of Sci. & Tech. and the faculty in the Computer Science department in Alzaytoonah University to use Moodle as an E-learning system.
- Teaching computer security, digital logic design and system programming labs

#### 5. Research Interests

- 1. Indoor/outdoor localization
- 2. Mobile Ad Hoc Networks
- 3. Inter-vehicular communication

# 6. Teaching Experience

#### • Undergraduate Courses

- Algorithms
- Human Computer Interaction
- E-Commerce
- System Programming
- Network Programming
- AI programming 1
- AI programming 2
- Programming in C++
- Graduate Project





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#### 7. Supervision of Graduate Research

• Supervising a master student, "Extract the impact of crisis on citizen using deep learning and machine learning techniques in Arabic social media contents", Al-Zaytoonah University of Jordan, Jordan.

#### 8. Grants

- COVD-19 platform detection from X-rays images and coughing sounds using machine learning methods, **In Progress**, Alzaytoonah University of Jordan. Amman-Jordan
- A novel indoor localization technique controlled by artificial intelligence for smart buildings *Acheived* Alzaytoonah University of Jordan. Amman-Jordan 2017
- Implementation of modified open source operating system for Alzaytoonah University of Jordan. Amman-Jordan (*Achieved*)- 2015.
- Affordable Smart Lighting Control Module with the Higher Council of Science and Technology in Cooperation with the European Union. Amman-Jordan (*Achieved*) -2014
- Quality of Ride assessment with the Michigan Department of Transportation (MDoT). Michigan -USA (*Achieved*)-2012
- Trajectory Planning in Non-Autonomous Mobile Ad-Hoc Networks with Boeing Company. Michigan-USA (*Achieved*) -2011

# 9. Membership of Committees

#### University

- College Council Member.
- Member in University Computer Center Council in ZUJ.
- Member of the Study Plan and Educational Resources Committee in CIS Department.





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### 10. Publications

#### Journals:

- Hawashin, Bilal; Aqel, Darah; Alzubi, Shadi; Elbes, Mohammad; Improving recommender systems using co-appearing and semantically correlated user interests, Recent Advances in Computer Science and Communications (Formerly: Recent Patents on Computer Science), 13, 2, 240-247, 2020 Bentham Science Publishers
- Elbes, Mohammed; Alrawashdeh, Thamer; Almaita, Eyad; AlZu'bi, Shadi; Jararweh, Yaser; A platform for power management based on indoor localization in smart buildings using long short-term neural networks ,Transactions on Emerging Telecommunications Technologies , , ,e3867 ,2020 ,John Wiley & Sons, Ltd. Chichester, UK
- 3. Muhairat, Mohammad; ALZu'bi, Shadi; Hawashin, Bilal; Elbes, Mohammed; Al-Ayyoub, Mahmoud; **An Intelligent Recommender System Based on Association Rule Analysis for Requirement Engineering**. ,J. UCS ,26 ,1 ,33-49 ,2020
- 4. Alkhatib, Ahmad AA; Elbes, Mohammed W; Maria, Eman M Abu; **Improving accuracy of wireless sensor networks localisation based on communication ranging**, IET Communications, 14, 18, 3184-3193, 2020, IET Digital Library
- 5. Hamadneh, T; Zraiqat, A.; Al-Zoubi, H.; Elbes, M.; Sufficient Conditions and Bounding Properties for Control Functions Using Bernstein Expansion ,Applied Mathematics and Information Sciences ,14 ,6 ,985–993 ,2020
- AlZu'bi, Shadi; Jararweh, Yaser; Al-Zoubi, Hassan; Elbes, Mohammed; Kanan, Tarek; Gupta, Brij; Multi-orientation geometric medical volumes segmentation using 3d multiresolution analysis, Multimedia Tools and Applications, 78, 17, 24223-24248, 2019, Springer US
- 7. Elbes, Mohammed; Alzubi, Shadi; Kanan, Tarek; Al-Fuqaha, Ala; Hawashin, Bilal; **A survey on particle swarm optimization with emphasis on**





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**engineering and network applications** ,Evolutionary Intelligence ,12 ,2 ,113-129 ,2019 ,Springer Berlin Heidelberg

- 8. Elbes, Mohammed; Alkhatib, Ahmad; Al-Fuqaha, Ala; Qadir, Junaid; **Using phase shift fingerprints and inertial measurements in support of precise localization in urban areas**, Personal and Ubiquitous Computing ,23 ,5 ,861-872 ,2019 ,Springer London
- AlZu'bi, Shadi; AlQatawneh, Sokyna; ElBes, Mohammad; Alsmirat, Mohammad; Transferable HMM probability matrices in multi-orientation geometric medical volumes segmentation, Concurrency and Computation: Practice and Experience, 2019
- Elbes, Mohammed; Aldajah, Amal; Sadaqa, Odai; P-stemmer or NLTK stemmer for arabic text classification? ,2019 Sixth International Conference on Social Networks Analysis, Management and Security (SNAMS) , 516-520 ,2019 ,IEEE
- 11. Alrawashdeh, Thamer A; Elbes, Mohammad W; Almomani, Ammar; ElQirem, Fuad; Tamimi, Abdelfatah; **User acceptance model of open source software: an integrated model of OSS characteristics and UTAUT**, Journal of Ambient Intelligence and Humanized Computing, , ,41275,2019, Springer
- 12. Elbes, Mohammed; Al-Fuqaha, Ala I; Anan, Muhammad T; **A Precise Indoor Localization Approach based on Particle Filter and Dynamic Exclusion Techniques**. ,Netw. Protoc. Algorithms ,5 ,2 ,50-71 ,2013
- 13. Elbes, Mohammed; Al-Fuqaha, Ala; **Design of a social collaboration and precise localization services for the blind and visually impaired**, Procedia Computer Science, 21, 282-291, 2013, Elsevier
- 14. Al-Fuqaha, Ala; Elbes, Mohammed; Rayes, Ammar; An intelligent data fusion technique based on the particle filter to perform precise outdoor localization, International Journal of Pervasive Computing and Communications, 2013, Emerald Group Publishing Limited





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15. Elbes, Mohammed; Al-Fuqaha, Ala; Rayes, Ammar; **Gyroscope drift** correction based on **TDoA** technology in support of pedestrian dead reckoning ,2012 IEEE Globecom Workshops ,314-319 ,2012 ,IEEE

#### **Conferences**

- 1. Hawashin, Bilal; Mansour, Ayman; Abukhait, Jafar; Khazalah, Fayez; AlZu'bi, Shadi; Kanan, Tarek; Obaidat, Mohammad; Elbes, Mohammed; **Efficient texture classification using independent component analysis**, 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT) 544-547, 2019, IEEE
- AlZu'bi, Shadi; Mughaid, Alaa; Hawashin, Bilal; Elbes, Mohammed; Kanan, Tarek; Alrawashdeh, Thamer; Aqel, Darah; Reconstructing Big Data Acquired from Radioisotope Distribution in Medical Scanner Detectors ,2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT) ,325-329 ,2019 ,IEEE
- 3. Elbes, Mohammed; Almaita, Eyad; Alrawashdeh, Thamer; Kanan, Tarek; AlZu'bi, Shadi; Hawashin, Bilal; **An indoor localization approach based on deep learning for indoor location-based services**, 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 437-441, 2019, IEEE
- 4. Kanan, Tarek; Sadaqa, Odai; Aldajeh, Amal; Alshwabka, Hanadi; AlZu'bi, Shadi; Elbes, Mohammed; Hawashin, Bilal; Alia, Mohammad A; A review of natural language processing and machine learning tools used to analyze arabic social media ,2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT) ,622-628 ,2019 ,IEEE
- Shadi AlZu'bi , Bilal Hawashin, Mohammed Elbes, Mahmoud Al-Ayyoub; ,A
   Novel Recommender System Based on Apriori Algorithm for Requirements
   Engineering ,2018 Fifth International Conference on Social Networks Analysis,
   Management and Security (SNAMS) ,2018





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- 6. Lilien, Leszek T; Elbes, Mohammed W; ben Othmane, Lotfi; Salih, Raed M; Simulation of emergency response operations for a static chemical spill within a building using an opportunistic resource utilization network ,2013 IEEE International Conference on Technologies for Homeland Security (HST) ,408-413 ,2013 ,IEEE
- 7. Al-Fuqaha, A; Kountanis, D; Cooke, S; Elbes, M; Zhang, J; A genetic approach for trajectory planning in non-autonomous mobile ad-hoc networks with qos requirements ,2010 IEEE Globecom Workshops , 1097-1102 ,2010 ,IEEE
- Elbes, Mohammed; Al-Fuqaha, Ala; Guizani, Mohsen; Rayes, Ammar; Oh, Jun S; A new hierarchical and adaptive protocol for minimum-delay v2v communication ,GLOBECOM 2009-2009 IEEE Global Telecommunications Conference ,44348 ,2009 ,IEEE