

# MAEN MARWAN ALZUBI



## Curriculum vitae السيرة الذاتية

### General Information

- Nationality: Jordanian
- Marital Status: Married
- Date of birth: 18/06/1982

### Contact

📍 Jordan – Irbid

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### Google Scholar:

<https://scholar.google.hu/citations?hl=en&user=28MuNqoAAAAJ>

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## Languages

Arabic – Native

English – Vgood Skills

## References

🔗 Prof -Dr. Silvester Kovacs,  
(Miskolc University - Hungary),  
Email: szkovacs@iit.uni-miskolc.hu

🔗 Dr. Mohammad Almseidin,  
(Tafila Technical University),  
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🔗 Prof -Dr. Mohammed Al-Batah,  
(Jadara University),  
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🔗 Prof -Dr. Mohamad Al Rawajbeh,  
(Al-Zaytoonah University),  
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🔗 Dr. radwan batyha,  
(Science Private University),  
Email: r\_batiha@asu.edu.jo

## Hobbies and Interests

- Graphic Design.
- Reading and Following any updates in the technology world.
- Football, swimming, travels

## 🔗 Summary

I am a talented, ambitious, and hardworking individual, with wide skills and experience in the computer science field. Furthermore, I am proficient at handling multiple tasks on a daily basis effectively and at working well under pressure. A key strength is communication; building strong relationships with people in order to deliver the best results. I have a Ph.D. in Computer Science - Artificial Intelligence. I also have extensive experience in teaching. Specifically, I have worked as a school teacher for more than 10 years. Also, I have worked as university lecturer for more than 3 years. I seek a teaching role in computer science departments.

## 🔗 Education

- **Ph.D. in “- Computer Science - Artificial Intelligence” - 2020**  
**Miskolc University (Miskolc, Hungary).**

### The title of my thesis is

**"FUZZY RULE INTERPOLATION ALGORITHM AND BENCHMARK SYSTEM".**

- **Master's Degree in "Computer Information Systems" - 2007**  
Arab Academy for Banking and Financial Sciences (Amman, Jordan).
- **Bachelor: Computer Science - 2004**  
Irbid National University (Irbid, Jordan).

## 🔗 Academic Experiences

- Assistant professor– **Full Time** - From February 2023 To till now. **Jadara university, Department of Robotics and Artificial Intelligence, Jordan.**  
**Courses** (Programming II-C++, WebApp Development, DB applications, OOP in C# Language, Machine Learning, R language for Master degree).
- Lecturer – **Part Time** – 1<sup>st</sup> and 2<sup>nd</sup> Semesters 2021/2022  
**Jordan university for science and technology, Jordan.**  
**Courses Taught:** \*Introduction to programming, \* Introduction to OOP
- Teaching Assistant – **Part Time** - From 2017 To 2019  
**The University of Miskolc, Hungary.**  
**Courses Taught:** \* MATLAB, \* Fuzzy System.
- Teaching Assistant – **Part Time** - 1/3/2004 To 19/8/2004  
**Jordan university for science and technology, Jordan.**  
**Courses Taught:** \*Teaching Oracle Course (SQL, Forms and Reports).  
\*Teaching VB class.
- Information Technology Specialist – **Full Time** - 02/09/2008 To 29/08/2012,  
**Ministry of Education, Bahrain.**  
**Activities:** \*As Trainer for the academic staff, \* As a Designer.
- Teacher and Technical – **Full Time** – From 2005 To 2008 / 2012 To 2016,  
**Ministry of Education, Jordan.**  
**Activities:** Teaching the computer skills (ICDL, Multimedia SW), (Networks, HR, and SF Maintenance).

## CS Skills and Courses

- Computer Office and Networks
- Graphic Design Skills (Adobe SWs)
- Programming Skills
- Web Development skills
- Data Mining Tools (Weka and Orange).
- Fuzzy System and Fuzzy Rule Interpolation Tool Boxes.

## I have excellent knowledge to teach the following Courses:

- Introduction to Computer Science & Computer Skills.
- Introduction to Artificial Intelligence
- Machine Learning.
- Digital Image Processing.
- Database Management System.
- Web development programming.
- Programming Languages(C++, C#, R, and Python).

## Technical Experiences

- Graphic Designer – **Full Time** - From 2010 To 2012  
**Bahrain Translation Office, Bahrain.**  
**Activities:** \* Books, Cards, Logos& Banners.
- Database Designer – **Full time and Part Time** - From 2005 To 2008  
**NTier co, Jordan.**  
**Activities:** [Database Designing, Testing, and Implementing using Oracle Tools such as (Oracle DB (9i,10G) and Oracle Developer 6i).
- Technical – **Part Time** - From 26/7/2003 To 10/8/2005  
**Techno way establishment, Jordan.**  
**Activities:** \* Networks Maintenance. \* Maintenance Technical (HR A& SF).

## Academic Responsibilities

- Head of the software engineering department from 1/10/2024 to now.
- Contributing to formulating a bachelor's program in robotics and artificial intelligence and a master's program specializing in data science and artificial intelligence.
- Drafting guidelines for the specialization in robotics and artificial intelligence.
- Serving as the representative of the Department of Robotics and Artificial Intelligence on the Council of the College of Science and Information Technology.
- Participating in discussions on graduation projects for students within the Computer Science and software engineering departments.
- Membership in the committee responsible for preparing the Taskeen program specific to robotics and artificial intelligence.
- Participated of the Study Plans, Course Equivalency, Examinations, and Study Schedules Committee.
- Membership in the Social, Cultural, Competitions, and Student Activities Committee.
- Involvement of the Academic Development, Quality Assurance, and Course File Follow-up Committee.
- Acting as the Rapporteur of the Student Issues Committee.

## Certifications

- Oracle (Form 6i/Reports 6i/PLSQL), (2003), (Orient computer system), (Jordan).
- ICDL, (2005) (Jordan)
- Oracle Developer 9i Course, (2006), (Ntier Tech co), (Jordan).
- Oracle DB 9i Course, (2006), (Ntier Tech co), (Jordan).
- Oracle Developer 10g Course, (2007), (Ntier Tech co), (Jordan).
- Training course in using "Smart Board" (2008) (Bahrain)
- Adobe SW (Photoshop (Level 1+2), Illustrator (Level 1+2), Flash, Director), (2010 /2011) (Bahrain).

## Teaching Philosophy

As a teacher, I believe interaction and engagement are both key to successful teaching and learning. My goal is to create a learning environment that is helping to active, engaged learning. I aim to create a safe space for learning and to make the educational experience fun. This is true whether teaching formally or informally, and especially whether my audience consists of school students or university students. My style of teaching is practical, experiential, and occasionally humorous, which I believe leads to a collaborative learning process that benefits everyone involved.

I am dedicated to always seeking to be a more effective teacher regardless of the venue and the learners, it is essential to make the experience interactive. I believe that enthusiasm for the content, for the students, and for the opportunity goes a long way toward creating an effective learning experience.

## My Research Interests

- Fuzzy Systems
- Fuzzy Rule Interpolation
- Image processing
- Machine Learning

## 🔗 Research Field

During my study period at the University of Miskolc, I developed a new algorithm and Benchmark systems for the Fuzzy Rule Interpolation concept. My new method handles many problems that exist in the current FRI algorithms according to various conditions. Besides that, the new benchmark systems were created for the most important conditions for the FRI concept (Convex and Normal fuzzy set condition and Piecewise linearity fuzzy set condition).

Currently, I am working with a new subject in image compression and image enhancement using fuzzy systems. I also have a research interest in a machine learning field and AI algorithms.

## • Publications (Journals)

1. M Almseidin, M Alzubi, J Al-Sawwa, M Alkasassbeh, M Alfraheed, "A **Threefold Approach for Enhancing Fuzzy Interpolative Reasoning: Case Study on Phishing Attack Detection Using Sparse Rule Bases**", Computers 13 (11), 291(2024). (Q2)
2. Alzubi, Maen, Mohammad Almseidin, Mouhammad Alkasassbeh, Jamil Al-Sawwa, and Amjad Aldweesh. "Comparative Analysis of Interpolation Techniques Across Various Fuzzy Interpolation Scenarios Using Benchmark Metrics." IEEE Access (2024). (Q1)
3. Mahmoud Alqerom · Mohammed Otair · Farid Meziane· Maen Alzubi. "efficient lossless image compression algorithms for natural and synthetic images".Journal of Robotics and Control (JRC) (2024). (Q2)
4. M Alzubi, M Almseidin, S Kovacs, J Al-Sawwa, M Alkasassbeh. "EI-FRI: Extended Incircle Fuzzy Rule Interpolation for Multidimensional Antecedents, Multiple Fuzzy Rules, and Extrapolation Using Total Weight Measurement and Shift Ratio". Journal of Robotics and Control (JRC)(2024) 5 (1), 217-227. (Q2)
5. M Almseidin, J Al-Sawwa, M Alkasassbeh, M Alzubi, K Alrfou. "DT-ARO: Decision Tree-based Artificial Rabbits Optimization to Mitigate IoT Botnet Exploitation". Journal of Network and Systems Management 32 (1) (2024)". (Q1)
6. Almseidin, Mohammad, Mouhammad Alkasassbeh, Maen Alzubi, and Jamil Al-Sawwa. "Cyber-Phishing Website Detection Using Fuzzy Rule Interpolation." Cryptography 6, no. 2 (2022): 24. (Q1)
7. Alzubi, Maen, and Szilveszter Kovacs. "Interpolative fuzzy reasoning method based on the incircle of a generalized triangular fuzzy number" Journal of Intelligent & Fuzzy Systems 39, no. 1 (2020): 709-729. (Q2)
8. Alzubi, Maen, and Szilveszter Kovacs. "Some considerations and a benchmark related to the CNF property of the koczy-hirota fuzzy rule interpolation." International Journal on Advanced Science, Engineering and Information Technology (2019). (Q2)
9. Alzubi, Maen, and Szilveszter Kovacs. "Investigating the piece-wise linearity and benchmark related to koczy-hirota fuzzy linear interpolation." Journal of Theoretical and Applied Information Technology 97 (11), 3098-3111 (2019).(Q3)
10. Alzubi, Maen, Zsolt Csaba Johanyák, and Szilveszter Kovács. "Fuzzy rule interpolation methods and FRI toolbox." arXiv preprint arXiv:1904.12178 (2018). (Q3)

## • Publications (Conferences)

1. Alzubi, Maen, Mohammad Almseidin, Mohd Aaqib Lone, and Szilveszter Kovacs. "Fuzzy Rule Interpolation Toolbox for the GNU Open-Source OCTAVE." In 2019 17th International Conference on Emerging eLearning Technologies and Applications (ICETA), pp. 16-22. IEEE, (2019).
2. Almseidin, Mohammad, Maen Alzubi, Mouhammd Alkasassbeh, and Szilveszter Kovacs. "Applying intrusion detection algorithms on the kdd-99 dataset". Production Systems and Information Engineering 8 (2019): 51-67.
3. Almseidin, Mohammad, Maen Alzubi, Szilveszter Kovacs, and Mouhammd Alkasassbeh. "Evaluation of machine learning algorithms for intrusion detection system". In 2017 IEEE 15th International Symposium on Intelligent Systems and Informatics (SISY), pp. 000277-000282. IEEE, 2017.

## • Publications (Under Process)(Accepted)

11. Amaal Rateb Shorman, Maen Alzubi, Mohammad Almseidin, Roqia Rateb, "Artificial Immune System Framework for Improving Internet of Things (IoT) Security". Journal of Robotics and Control (JRC)(2024). (Q2). Accepted
12. Maen Alzubi, Murad Bashabsheh, Mohammad Alrefai, Mohammad Almseidin, Mahmoud AlQerom, "Fuzzy Rule Interpolation Based a Generalization of the Gergonne Point Incircle for Interval Fuzzy Sets Type-II". Under process