

# Curriculum Vitae

## Personal Details

### Dr. Mamoon Yusef Mohammed Obiedat



*Address:* Hashemite University, Jordan  
Assistant Professor

*Telephone:* +962 776 802472 (mobile)

*E-mail:* [mamoon@hu.edu.jo](mailto:mamoon@hu.edu.jo)

*Place & date of birth:* Yabla – 2<sup>nd</sup> of March, 1970

*Nationality:* Jordanian

*Marital status:* Married

## Educational Qualification

- 2014      *PhD in Computer Sciences, Lincoln University, New Zealand*  
*Field: Soft Computing and Decision Support System*  
*Thesis Title: "Robust Semi-Quantitative Fuzzy Cognitive Map Model for Complex Systems and Case Study: Mitigating the Water Scarcity Problem in Jordan"*
- 2005      *M.Sc. in Computer Information System (CIS), Yarmouk University, Irbid – Jordan*  
*Cumulative Average: (84.1)*  
*Rating: (Very Good)*  
*Graduation Project: "Inverted Files versus Signature Files versus PAT Tree for Arabic Text Indexing"*
- 1992      *B.Sc. in Computer Sciences, Yarmouk University, Irbid – Jordan*  
*Cumulate Average: (72)*  
*Rating: (Good)*
- 1988      *The General Secondary Education Certificate / Scientific Stream,*  
*Kufrsoum Secondary School, Irbid – Jordan*  
*Percentage average: ( 89.4 )*

## Knowledge Areas

- *Soft computing Systems*      □ *Fuzzy Cognitive Map*
- *Complex Systems*      □ *Graph Theory Indices*
- *Decision Support System*      □ *Management Information Systems*
- *Data Mining*

*Editorial board members:* International Journal of Data Mining, Modelling and Management

## Career History

2015 – Till now Hashemite University – Computer Information Systems Department

Title: Assistant Professor

Duties:

- Teaching, Advising students, Research
- Supervising Projects & Practical training
- Representative of the CIS department at the IT College
- Member in several department and college committees
- Participant in Tempus and Erasmus+ European Projects
- Examiner for Master thesis
- Reviewer for Journal papers

1998 – 2009, 2014 Al-Balqa Applied University - Irbid College

Title: Instructor

Duties:

- Teaching, Advising students
- Coordinating student field work
- Supervising Projects & Practical training
- Preparing course schedules
- Participating in comprehensive examination preparation
- Writing Comprehensive Exams

1995 – 1998 Ministry of Higher Education – Irbid College

Title: Instructor

Duties:

- Teaching, Advising students
- Supervising Projects & Practical training
- Participating in comprehensive examination preparation

1994 – 1995 Lands and Survey Department – Amman

Title: Programmer and System Analyst

Duties:

- Programmed and Analyzed Various Systems

1992 – 1994 Al-Salam Cultural Center – Amman

Title: Trainer

Duties:

- Training for various Applications and Computer Languages –  
Computer Hardware Maintenance

## Research Interests

- Fuzzy Cognitive Map Approach (I developed a Novel Semi-Quantitative Fuzzy Cognitive Map Model for Complex Systems, 2010-2013)

- *Qualitative, Dynamic and Complex Real-Life Systems (I addressed, analyzed and simulated the Water Scarcity Problem in Jordan, and I provided Useful Recommendations for Decision Makers, 2012/2013)*
- *Management Information Systems ( The Electronic Election in Jordan, 2005)*
- *Decision Support Systems*

## Publications

1. Mamoon Obiedat, Ali Al-Yousef, Ahmad Khasawneh, Nabhan Hamadneh, Ashraf Aljammal, *Using Fuzzy c-Means for Weighting Different Fuzzy Cognitive Maps*, International Journal of Advanced Computer Science and Applications, Volume 11, No 5, 2020, Pages 545-551, ISSN: 2156-5570.  
[https://thesai.org/Downloads/Volume11No5/Paper\\_69-Using\\_Fuzzy\\_c\\_Means\\_for\\_Weighting.pdf](https://thesai.org/Downloads/Volume11No5/Paper_69-Using_Fuzzy_c_Means_for_Weighting.pdf)
2. Mamoon Obiedat, Ali Al-Yousef, Mustafa Banikhalaf, Khairallah Al Talafha, *A New Quantitative Method for Simplifying Complex Fuzzy Cognitive Maps*, International Journal of Data Mining, Modelling and Management, the paper in the publishing process. The paper can be seen listed as forthcoming publication at:  
<https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijdmmm>
3. Mamoon Obiedat, Ahmad Khasawneh, Mustafa Banikhalaf, Ali Al-Yousef, *Representing and Simulating Uncertainty of the Quality of Service of Web Services using Fuzzy Cognitive Map Approach*, International Journal of Advanced Computer Science and Applications, Volume 11, No 4, 2020, Pages 555-561, ISSN: 2156-5570.  
[https://thesai.org/Downloads/Volume11No4/Paper\\_73-Representing\\_and\\_Simulating\\_Uncertainty.pdf](https://thesai.org/Downloads/Volume11No4/Paper_73-Representing_and_Simulating_Uncertainty.pdf)
4. Mustafa Banikhalaf, Mohammad Ashraf Ottom, Mamoon Obiedat, Nabhan Hamadneh, *Framework for Fog Virtual Traffic Light System*, Journal of Theoretical and Applied Information Technology, Volume 98, No 2, 2020, Pages 212-217, ISSN: 1992-8645.  
<http://www.jatit.org/volumes/Vol98No2/9Vol98No2.pdf>
5. Ali Al-yousef, Haytham Eloqayli, Anwar Almustafa, Mamoon obiedat. *Predicting Treatment Outcome of Spinal Musculoskeletal Pain Using Artificial Neural Networks: A Pilot Study*, International Journal of Medical Engineering and Informatics, Acceptable paper in the publishing process
6. Nabhan Hamadneh, Mamoon Obiedat, Ahmad Qawasmeh, Mohammad Bsoul. *HRED, An Active Queue Management Algorithm for TCP Congestion Control*, Recent Patents on Computer Science, Volume 12, No 3, 2019, Pages 212-217, ISSN: 2213-2759.  
<http://www.eurekaselect.com/168097/article>
7. Ali Al-Yousef, Yousef Aljaraidh, Mamoon Obiedat, Eyad Barakat, Ahmad Habboush. *The impact of using e-learning on the student's performance in 3rd developing countries: a pilot study*, International Journal of Engineering & Technology, Volume 7, No 4, 2018, Pages 6189-6191, ISSN: 2227-524X.  
<https://www.sciencepubco.com/index.php/ijet/article/view/24151>
8. Ashraf Hamdan Aljammal, Hani Bani-Salameh, Ayoub Alsarhan, Mohammad Kharabsheh, Mamoon Obiedat (2017). *Node Verification to Join the Cloud Environment Using Third Party Verification Serve*, International Journal of Interactive Mobile Technologies, Volume 11, No 4, 2017, Pages 55-66, ISSN 1865-7923. <http://online-journals.org/index.php/i-jim/article/view/6501>.

9. Obiedat, M. & Samarasinghe, S. (2016). A novel semi-quantitative Fuzzy Cognitive Map model for complex systems for addressing challenging participatory real life problems, *Applied Soft Computing*, Volume 48, November 2016, Pages 91-110, ISSN 1568-4946. <http://www.sciencedirect.com/science/article/pii/S1568494616302666>.
10. Obiedat, M. & Samarasinghe, S. (2013). *Fuzzy Representation and Aggregation of Fuzzy Cognitive Maps*. Proceedings of the 20th International Congress on Modelling and Simulation (MODSIM2013), Adelaide, Australia. <http://mssanz.org.au/modsim2013>.
11. Obiedat, M., Samarasinghe, S., & Strickert, G. (2011). *A New Method for Identifying the Central Nodes in Fuzzy Cognitive Maps using Consensus Centrality Measure*. Proceedings of the 19th International Congress on Modelling and Simulation (MODSIM2011), Perth, Australia. <http://mssanz.org.au/modsim2011>.

## REFERENCES

- Prof. Sandhya Samarasinghe E-Mail: [Sandhya.Samarasinghe@lincoln.ac.nz](mailto:Sandhya.Samarasinghe@lincoln.ac.nz)
- Prof. Ahmad Khasawneh E-Mail: [akhasawneh@yahoo.com](mailto:akhasawneh@yahoo.com)
- Dr. Magdy Mohssen E-Mail: [Magdy.Mohssen@lincoln.ac.nz](mailto:Magdy.Mohssen@lincoln.ac.nz)