

## DR. MOHAMMAD ANWAR ASSAAD

ASSISTANT PROFESSOR of COMPUTER SCIENCE

CIHAN UNIVERSITY – ERBIL

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### PERSONAL INFORMATION

Birth Date: 18/1/1975

Gender: Male

Nationality: Syrian

Current Residence: Iraq, Erbil.

Marital Status: Married

No. of children: 3

Academic Rank: Assistant professor

### ACADEMIC RANK

- Assistant professor (2018) Tishreen University - Syria.
- Lecturer (2006-2017), Tishreen University - Syria.
- Assistant Lecturer (1997-2000) Tishreen University - Syria.

### EDUCATION

|  |                  |
|--|------------------|
| <b>Assistant Professor in Computer Science</b><br>Tishreen University - Syria.   | <b>2018-</b>     |
| <b>Ph.D. in Computer Science/Artificial Intelligence</b><br>Graduate school of engineering University François-Rabelais – Tours – France.  | <b>2006</b>      |
| <b>Master in Computer Science/Artificial Intelligence</b><br>Graduate school of engineering University François-Rabelais – Tours – France. | <b>2001-2002</b> |
| <b>Courses in Computer Science</b><br>UFR-MIM, Informatics Department,<br>University of Metz- France.                                      | <b>2000-2001</b> |
| <b>Assistant in Computer Science</b><br>Tishreen University - Syria.   | <b>1997-2000</b> |
| <b>Degree in Mathematics Science, Computer Sciences Section.</b><br>Tishreen University - Syria.   | <b>1997</b>      |

## TEACHING EXPERIENCE

- Assistant professor, Cihan Private University, Department of Informatics and Software Engineering, Erbil, Iraq (2023-2024).
- Assistant professor, Qasyoun Private University, Department of Informatics Engineering, (2022-2023).
- Assistant professor, Tishreen University, Department of Mathematics, (2018-2022).
- Assistant professor, Virtual University of Syria, Department of Computer Science, (2018-2023).
- Assistant professor, Tartous University, Department of Mathematics, (2014-2022).
- Lecturer, Arab Academy for Maritime Transport, (2018-2019).
- Lecturer, Tishreen University, Department of Mathematics, (2006-2017).
- Lecturer, Almanara Private University, Department of Informatics Engineering, (2016-2017).
- Lecturer, AL Kalamoon Private University, Department of Computer Science (2008-2015). Head of Computer Science Department (2011-2013).
- Lecturer, Almaamon Private University, Department of Informatics Engineering (2007-2010).
- Lecturer at Tishreen University, Department of Mathematics, (1997-2000).

## ACADEMIC DUTIES

- Conducting research.
- Teaching graduate, and undergraduate courses.
- Supervising, Master's, and Ph.D. students, and graduation projects.
- Coordinator of the scheduling committee, which is responsible for offering courses and balancing the load among faculty members.
- **COURSE EXPERIENCE:** Artificial Intelligence, Image and Pattern Recognition, Computer Vision, Artificial Neural Networks, Deep Learning, Machine Learning, Data Science, Database systems, Distributed Database systems, Web Design, Web Development, Software Engineering, Software Testing, Application Development, Computational Theory, Discrete mathematics, Statistics and Probability, Linear algebra, Calculus, Differential equations, Operations Research, Graph Theory, Compiler Design, Computer Graphics, Research Methods, Introduction to Algorithm and Programming, Introduction to Information System, Operating Systems, Advanced Programming in Java, Python, C, C++, C#, Prolog, Computer Skills (Windows, Microsoft Office), Programming with MATLAB, Database (SQL, Oracle), Advanced Database(PL/SQL, Form Builder), HTML, CSS, JavaScript, PHP, Xampp, PhpMySql.
- **RESEARCH INTERESTS:** Artificial Neural Networks, Fuzzy Logic, Artificial Intelligence, Machine Learning, Deep Learning, Expert Systems, Image Processing and Pattern Recognition, Internet Technologies and Web Programming, database, Data Mining, Data Science, Big Data, Discrete Math, Web Design, Web Development.

## PROFESSIONAL EXPERIENCE

- Head of Computer Science Department (2010-2012) Kalamoon University-Syria.
- Publication of book at Tishreen University entitled "Principles of Computers work". of Computers work".
- Supervising 10 Master students, Department of Mathematics/Computer Sciences at Tishreen University.
- Supervising 1 Ph.D. student, Department of Mathematics/Computer Sciences at Aleppo University.
- Supervising 250 graduation projects for students of the virtual university.

- Supervising 100 graduation projects for students of the Applied College at Tishreen University.

## **RESEARCH, ARTICLES, PUBLICATIONS, SEMINARS AND CONFERENCES:**

### **International Articles (Scientific Essays):**

- **Mohammad A. Assaad**, G.H Shakah (2024): "Optimizing Health Pattern Recognition Particle Swarm Optimization Approach for Enhanced Neural Network Performance". Cihan University-Erbil Scientific Journal (CUESJ), Vol. 8, No. 2, pp 76-83. doi.org/10.24086/cuesj.v8n2y2024.pp76-83
- Fatimatelbatoul M. Husari, **Mohammad A. Assaad** (2024): "Intelligent Handwritten Identification Using Novel Hybrid Convolutional Neural Networks – Long-short-term Memory Architecture". Cihan University-Erbil Scientific Journal (CUESJ), Vol. 8, No. 2, pp 99-103. doi.org/10.24086/cuesj.v8n2y2024.pp99-103
- Bassam M. Abdallah, Sadeq Mohammed Ameen Saeed, **Mohammad A. Assaad** (2024): "Resource Management for Heterogeneous IoT Services In 5g/6g Wireless Network". 5th International Conference on Communication Engineering and Computer Science (CIC-COCOS'2024), pp 375-383. DOI: 10.24086/cocos2024/paper.1457
- Zuheir Ahmad, Bassam M. Abdallah, **Mohammad A. Assaad** (2024): " Investigate Harnessing Artificial Intelligence Technology (AIT) in Detecting Diseases (Covid 19)". 5th International Conference on Communication Engineering and Computer Science (CIC-COCOS'2024), pp 186-191. DOI: 10.24086/cocos2024/paper.1486
- Nizar A. Altounji, **Mohammad A. Assaad**, Ahmad Younso (2024): "A Study on Flexible Bayes Classifier Using KNearest Neighbor Density Estimator". 5th International Conference on Communication Engineering and Computer Science (CIC-COCOS'2024), pp 178-185. doi.org/10.24086/cocos2024/paper.1478
- Ahmad A Akel, **Mohammad A. Assaad** (2024): "Enhancing Quality of Service in Information-Centric Networks (ICN) using Artificial Intelligence Algorithms". 5th International Conference on Communication Engineering and Computer Science (CIC-COCOS'2024), pp 142-148. doi.org/10.24086/cocos2024/paper.1456
- AlRazzo A., Ide N.A.D., **Assaad M.** (2023): " A New Algorithm for Finding the Roots of Nonlinear Algebraic Equations". Baghdad Science Journal, 2023. doi.org/10.21123/bsj.2024.7481
- R. Shaheen, **M. Assaad** and A. Kassem (2021): "On Eternal Domination of Generalized  $J_s, m$ ", Journal of Applied Mathematics, Vol. 2021. DOI: 10.1155/2021/8882598
- Asaad B., **Assaad M.**, (2021): "The Impact of Coronavirus Pandemic on Accommodations Tourist Demand in Syria (Analytical Study of Lattakia Accommodations)". World Academics Journal of Management, Vol. 9, No. 1, pp 21-25. E-ISSN: 2321-905X
- R. Shaheen, **M. Assaad** and A. Kassem (2019): "Domination and eternal domination of Jahangir graph", Open Journal of Discrete Mathematics, Vol. 9, No. 3, pp 68-81. DOI: 10.4236/ojdm.2019.93008
- Shaheen R., **Assaad M.** (2017): "The Domination Number of  $P_n \times \overrightarrow{P_n}$  . " British Journal of Mathematics and Computer Science, Vol. 20, No. 3. DOI: 10.9734/BJMCS/2017/31051
- **Assaad M.**, Boné R., Cardot H. (2008): "A New Boosting Algorithm for Improved Time-Series Forecasting with Recurrent Neural Networks", Information Fusion Journal, Elsevier Science Publishers, Vol. 9, No. 1. doi.org/10.1016/j.inffus.2006.10.009

### **National Articles:**

- AlRazzo A., Ide N.A.D., **Assaad M.** (2022): " Hybridization of Newton-Raphson Method with Fuzzy Logic to Find the Optimal Solution for Nonlinear Functions". Aleppo University Journal for Research and Scientific Studies - Basic Sciences Series, Vol. 25.
- AlRazzo A., Ide N.A.D., **Assaad M.** (2021): "A new Algorithm by Hybridization Geometric Mean Formula with Fuzzy Logic and Using it to find the Local Minimum Value Solution for Nonlinear Functions". Aleppo University Journal for Research and Scientific Studies - Basic Sciences Series, Vol. 146.
- AlRazzo A., Ide N.A.D., **Assaad M.** (2021): " Classification of x-ray images of COVID-19 disease using artificial intelligence techniques". AL Baath University Journal of Al Baath University, Vol.43.
- **Assaad M.**, Asaad B. (2020): " Efficiency of Using the Artificial Intelligence Model (Fuzzy Logic) in Forecasting the Demand for the Number of Tourists (An Applied Study on Tourist Demand in the Syrian Coast Using INFIS Model)". Tartous University Journal of Economic Sciences. Vol. 4, No. 1.
- **Assaad M.**, Osman M. (2019): "Optimization of the fuzzy Huffman network algorithm and its use in the cluster domain". Tartous University Journal of Economic Sciences. Vol.3, No.1.
- **Assaad M.**, Ahmad AlRazzo (2018): Hybridization between the Genetic Algorithm and the Fuzzy Kohonen Clustering Network and Applying it in Clustering Field. AL Baath University Journal of Al Baath University, Vol. 40.
- **Assaad M.** (2018): Improving Fuzzy Kohonen Clustering Network and Applying it to Iris Data and Medical Image Segmentation. Tishreen University Journal for Research and Scientific Studies - Basic Sciences Series, Vol. 39, No. 4.
- **Assaad M.** (2016): A proposed model for measuring talent degree by using fuzzy logic (Applied study- Master students in the Faculty of Sciences) . Tishreen University Journal for Research and Scientific Studies - Basic Sciences Series, Vol. 38, No. 6.
- Hasan M., **Assaad M.**, Esmaeel F. (2011): The Applications of Boosting Algorithm in the Prediction for Sequential Data Using Recurrent Neural Networks. Tishreen University Journal for Research and Scientific Studies - Basic Sciences Series, Vol. 33, No. 1.

### **International Conferences**

- **Assaad M.**, Boné R., Cardot H. (2006): Predicting Chaotic Time Series by Boosted Recurrent Neural Networks, 13th International Conference on Neural Information Processing (ICONIP'06), Lecture Notes in Computer Science, Vol. 4233, Springer-Verlag, King et al. (Eds.), Hong Kong, October 3-6, pp. 831-840. <https://hal.science/hal-01026310>
- **Assaad M.**, Boné R., Cardot H. (2006): Boosting Multi-Step-Ahead Forecasting with Recurrent Neural Networks, 26th International Symposium on Forecasting (ISF'06), June 11-14, Santander, Spain, p. 134. <https://hal.science/hal-01026289>
- **Assaad M.**, Boné R., Cardot H. (2005) : Study of the Behavior of a New Boosting Algorithm for Recurrent Neural Networks, Artificial Neural Networks: Formal Models and Their Applications, International Conference on Artificial Neural Networks (ICANN 2005), Lecture Notes in Computer Science, Vol. 3697, Springer-Verlag, W. Duch et al. (Eds.), Warsaw, Poland, September 11-15, pp. 169-174. [http://dx.doi.org/10.1007/11550907\\_163](http://dx.doi.org/10.1007/11550907_163)
- **Assaad M.**, Boné R., Cardot H. (2005): Time Series Forecasting by Ensemble of Recurrent Neural Networks: some New Results, 25th International Symposium on Forecasting (ISF'05), June 12-15, San Anto., Texas, USA, p. 50. [https://isf.forecasters.org/wp-content/uploads/ISF2005\\_Program.pdf](https://isf.forecasters.org/wp-content/uploads/ISF2005_Program.pdf)
- Boné R., **Assaad M.**, Crucianu M. (2003): Boosting Recurrent Neural Networks for Time Series Prediction,

International Conference on Artificial Neural Networks and Genetic Algorithms (ICANN'03), 23-25 April, Roanne, France, In Artificial Neural Nets and Genetic Algorithms, D.W. Pearson, N.C. Steele, R. F. Albrecht (eds), Artificial Neural Networks and Genetic Algorithms, Springer Computer Science, Springer, pp. 18-22. DOI:10.1007/978-3-7091-0646-4\_4

### **National conferences (France)**

- **Assaad M.**, Boné R., Cardot H. (2006) : Booster les réseaux de neurones récurrents pour la prévision multipas, 13ème Rencontres de la Société Francophone de Classification (SFC 2006), pp. 46-50.
- **Assaad M.**, Boné R., Cardot H. (2006) : Un algorithme de boosting pour la prévision des séries temporelles par réseaux de neurones récurrents, 8ème conférence francophone sur l'apprentissage automatique (CAp 2006), Presses Universitaires de Grenoble, 22-24 mai 2006, Trégastel, France, pp. 267-282. <https://hal.science/hal-01045048>

### **Book publishing**

International E-Book (2022), Research Aspects in Arts and Social Studies, B P International publishing organization. 27 Old Gloucester Street London WC1N 3AX, UK, Guest House Road, Street – 1/6 , Hooghly, West Bengal, India. ISBN 978-5547-839-9 (Print). ISBN 978-93-5547-840-5 (eBook). Vol(1). <https://stm.bookpi.org/RAASS-V1/issue/view/786>

### **WORKSHOPS/ SEMINARS/ CONFERENCES**

- Participated in the International workshop on “From AI to GenAI: Exploring Latest Innovations” organized by Informatics & Software Engineering at Cihan University-Erbil and University of Southern Denmark, 25-26 March 2024.
- Attended a training course on “Improve Presentation and Learning by Using Infographics” organized by Cihan University-Erbil, Kurdistan Region, Iraq, 24 September-12 October, 2023.
- Attended a training course on “Course Management Based on Moodle Platform” organized by Cihan University-Erbil, Kurdistan Region, Iraq, 3-7 September 2023.
- Participated at the 5<sup>th</sup> international conference on “Communication Engineering and Computer Science” at Cihan University-Erbil, Kurdistan Region, Iraq, 24-25 April 2024.

### **COMMITTEES/ PROFESSIONAL GROUPS/ SERVICES**

- President of the Scientific Committee at the 5<sup>th</sup> International Conference on Communication Engineering and Computer Science (CIC-COCOS'24) at Cihan University-Erbil, Kurdistan Region, Iraq, 24-25 April 2024.
- Chairman of the Artificial Intelligence Track at the 5th International Conference on Communication Engineering and Computer Science (CIC-COCOS'24) at Cihan University-Erbil, Kurdistan Region, Iraq, 24-25 April 2024.
- President of the Scientific Committee in the Department of Software Engineering and Information (2023-2024).
- Member of the Organizing Committee of the Artificial Intelligence and Robotics Laboratory at Cihan University (2023-2024).
- Scientific committee member at the International Artificial Intelligence Competition (2024-2025).
- Scientific committee member at the AI Center and curriculum designer for the Computer Science/AI branch at Cihan University-Erbil (2023-2025).
- Participated in a Workshop at the College of Architecture entitled Towards a Knowledge Society at Tishreen University, 2016.

- Participated in a workshop at the Skills and Career Guidance Center at Tishreen University (Various software that serves the labor market), 2015.
- Trainer in a Workshop at Tishreen University (MATLAB program), 2009.

## **LANGUAGES**

- **Arabic:** Native Proficiency
- **English:** good (Read, Write and speak).
- **French:** Very good.

## **PRIZES AND MEDALS**

Al-Basel Certificate for Academic Excellence, 1995.

## **REFERENCES**

- 1) **Prof Hubert Cardot**, Directeur de l'école doctorale MIPTIS, University of Tours, France  
Email id: hubert.cardot@univ-tours.fr
- 2) **Prof Suliman Mahmod**, Professor/ Head of Department of Mathematics-Tishreen University, Syria  
Phone (mobile): +963937109472  
Email id: Suliman\_mmn@yahoo.com
- 3) **Dr. Haider Khalil**, Qasyoun Private University, Syria  
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