

Curriculum Vitae

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Yousif Raad Muhsen

Personal Details

Full Name: Yousif Raad Muhsen

Date of Birth: 13 December 1986

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Affiliation: Department of Civil College of Engineering, Wasit University, Wasit, Iraq.

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Websites: Google Scholar:
<https://scholar.google.com/citations?user=kuqhSVcAAAAJ&hl=en>
Scopus:
<https://www.scopus.com/authid/detail.uri?authorId=57216731867>

Summary of Achievements

- Received the PhD degree in Artificial Intelligence and Fuzzy MCDM, MSc in Computer Science and Information Technology (with distinction and the Top Academic Excellence Award), and BSc in Computer Science (with honours).
- Published 33+ publications indexed under the ISI Web of Science and Scopus.
- His main contributions have been published in highly reputed journals with high impact factors, such as Computer Science Review, IEEE, Business Strategy and the Environment, International Journal of Human–Computer Interaction, Results in Engineering, International Journal of Intelligent Systems, Complex & Intelligent Systems, Current Psychology, Environmental Science and Pollution Research, Electronic commerce research and applications, and Applied Soft Computing Journal, among many others.
- Edited book published by Springer and indexed in Scopus.
- His publications received 914+ citations with an h-index of 35, as per Google Scholar metrics.

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- Co-Founder and Conference General Chair for several international conferences.
 - Editorial Review Board of several international journals indexed under the ISI Web of Science.
 - Taught several courses at the postgraduate and undergraduate levels.
 - Delivered several keynotes and workshops at international and national levels.
 - Received several International, national, and university level academic awards for research excellence.

Education

Ph.D. in Computer Science (December 2024):

- Title: BENCHMARKING OF ROUTING ALGORITHMS IN NOC-BASED MPSOC BY GUARANTEED CONVERGENCE ARITHMETIC OPTIMIZATION WITH ARTIFICIAL NEURAL NETWORK AND FUZZY MCDM.
- Awarding Institute: Computer Science and Information Technology, Universiti Putra Malaysia, Malaysia (QS World Ranking: #124).
- Supervisors:
 - Main Supervisor: Prof. Dr. Azura binti Husin.
 - Co-supervisor: Dr. Maslina Zolkepli.
 - Co-supervisor: Dr. Noridayu Manshor.

M.Sc. in Organizations Studies (Organizational Theory and Behaviour) (June 2016):

- Title: Data storage risk management.
- Awarding Institute: Informatics and Computer Science, Petersburg State Transport University of Emperor Alexander I.
- Supervisor: к.т.н. доц. Барановский А.М.
- Remarks: Graduated with distinction level along with the Top Academic Excellence Award for females and males' masters graduates.

B.Sc. in Operation Management (July 2008):

- Awarding Institute: College Of Science, University of Al Mustansiriya, Baghdad, Iraq.

Academic Appointments

September 2016 –Present Department of Civil College of Engineering, Wasit University, Wasit, Iraq.

Executive & Administrative Appointments

September 2009 – January 2011 **Acting Department rapporteur of Civil Engineering**
College of Engineering, Wasit University, Wasit, Iraq.

February 2012 – September 2013 **Director of Documents and Certificates**
College of Engineering, Wasit University, Wasit, Iraq.

October 2016 – October 2019 **Computer Unit Manager**
College of Engineering, Wasit University, Wasit, Iraq.

Research Achievements

Research Interests

Multi-Criteria Decision Analysis, Fuzzy environment, Artificial Neural Network, Human-Computer Interaction, Technology Acceptance, Operation Management, and Artificial Intelligence.

Research Quality

- Google Scholar Citation Metrics: citations 916; h-index 18; i10-index 20.
- The significant contributions were published in highly reputed journals with high Impact Factor such as: Computer Science Review, IEEE, Business Strategy and the Environment, International Journal of Human–Computer Interaction, Results in Engineering, International Journal of Intelligent Systems, Complex & Intelligent Systems, Current Psychology, Environmental Science and Pollution Research, Electronic commerce research and applications, and Applied Soft Computing Journal, among many others.
- A number of conference papers were published in highly well-known publishers, such as IEEE and Springer.

Some of Research Publications

Journal Articles

1. Muhsen, Yousif Raad, Salah L. Zubaidi, Nor Azura Husin, Alhamzah Alnoor, Darko Božanić, and Khalid S. Hashim. "The weight fuzzy judgment method for the benchmarking sustainability of oil companies." *Applied Soft Computing* 161 (2024): 111765. [\[ISI Web of Science \(Impact Factor: 7.2\) and Scopus indexed; Q1\]](#).
2. Alnoor, Alhamzah, Sammar Abbas, Khai Wah Khaw, **Yousif Raad Muhsen**, and XinYing Chew. "Unveiling the optimal configuration of impulsive buying behavior using fuzzy set qualitative comparative analysis and multi-criteria decision approach." *Journal of Retailing and Consumer Services* 81 (2024): 104057. [\[ISI Web of Science \(Impact Factor: 11\) and Scopus indexed; Q1\]](#).
3. Alnoor, Alhamzah, **Yousif Raad Muhsen**, Nor Azura Husin, XinYing Chew, Maslina Binti Zolkepli, and Noridayu Manshor. "Z-cloud Rough Fuzzy-Based PIPRECIA and CoCoSo Integration to Assess Agriculture Decision Support Tools." *International Journal of Fuzzy Systems* (2024): 1-14. [\[ISI Web of Science \(Impact Factor: 3.6\) and Scopus indexed; Q1\]](#).
4. **Muhsen, Y. R.**, Husin, N. A., Zolkepli, M. B., Manshor, N., & Al-Hchaimi, A. A. J. (2023). Evaluation of the routing algorithms for NoC-based MPSoC: a fuzzy multi-criteria decision-making approach. *IEEE Access*. [\[ISI Web of Science \(Impact Factor: 3.8\) and Scopus indexed; Q1\]](#).
5. **Muhsen, Y. R.**, Husin, N. A., Zolkepli, M. B., Manshor, N., Al-Hchaimi, A. A. J., & Ridha, H. M. (2023). Enhancing NoC-based MPSoC performance: a predictive approach with ANN and guaranteed convergence arithmetic optimization algorithm. *IEEE Access*. [\[ISI Web of Science \(Impact Factor: 3.8\) and Scopus indexed; Q1\]](#).
6. **Muhsen, Y. R.**, Husin, N. A., Zolkepli, M. B., Manshor, N., Al-Hchaimi, A. A. J., & Albahri, A. S. (2024). Routing Techniques in network-on-chip based multiprocessor-system-on-chip for IOT: a systematic review. *Iraqi Journal For Computer Science and Mathematics*, 5(1), 181-204. [\[Scopus indexed; Q2\]](#).
7. Ahmed, A. D., Salih, M. M., & **Muhsen, Y. R.** (2024). Opinion weight criteria method (OWCM): a new method for weighting criteria with zero inconsistency. *IEEE access*. [\[ISI Web of Science \(Impact Factor: 3.8\) and Scopus indexed; Q1\]](#).
8. Khudhair, Zahraa S., Salah L. Zubaidi, Anmar Dulaimi, Hussein Al-Bugharbee, **Yousif Raad Muhsen**, Ramadhansyah Putra Jaya, Hussein Mohammed Ridha, Syed Fawad Raza, and Saleem Ethaib. "Metaheuristic algorithms applied in ANN salinity modelling." *Results in Engineering* 23 (2024): 102541. [\[ISI Web of Science \(Impact Factor: 6\) and Scopus indexed; Q1\]](#).
9. Chew, X., Alnoor, A., Khaw, K. W., Sadaa, A. M., Al Halbusi, H., & **Muhsen, Y. R.** (2024). Symmetric and asymmetric modeling to boost customers' trustworthiness in livestreaming commerce. *Current Psychology*, 1-19. [\[ISI Web of Science \(Impact Factor: 2.8\) and Scopus indexed; Q1\]](#).

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10. **Muhsen, Y. R.**, Husin, N. A., Zolkepli, M. B., & Manshor, N. (2023). A systematic literature review of fuzzy-weighted zero-inconsistency and fuzzy-decision-by-opinion-score-methods: assessment of the past to inform the future. *Journal of Intelligent & Fuzzy Systems*, 45(3), 4617-4638. [\[ISI Web of Science \(Impact Factor: 1\) and Scopus indexed; Q2\]](#)
 11. Yousif Alhasnawi, M., Mohd Said, R., **Raad Muhsen, Y.**, Alnoor, A., Mowafaq Alshdaifat, S., & Mohamed El Shlmani, Z. (2024). A systematic literature review of budget participation: foundations, trends, and ways forward. *International Review of Public Administration*, 1-28. [\[Scopus indexed; Q2\]](#).
 12. Alnoor, A., **Muhsen, Y. R.**, Husin, N. A., Chew, X., Zolkepli, M. B., & Manshor, N. (2024). Z-cloud Rough Fuzzy-Based PIPRECIA and CoCoSo Integration to Assess Agriculture Decision Support Tools. *International Journal of Fuzzy Systems*, 1-14. [\[ISI Web of Science \(Impact Factor: 4.3\) and Scopus indexed; Q1\]](#).
 13. **Muhsen, Y. R.**, Zubaidi, S. L., Husin, N. A., **Alnoor, A.**, Božanić, D., & Hashim, K. S. (2024). The Weight Fuzzy Judgment Method for the Benchmarking Sustainability of Oil Companies. *Applied Soft Computing*, 111765. [\[ISI Web of Science \(Impact Factor: 8.7\) and Scopus indexed; Q1\]](#).
 14. Alnoor, A., Chew, X., Khaw, K. W., **Muhsen, Y. R.**, & Sadaa, A. M. (2024). Benchmarking of circular economy behaviors for Iraqi energy companies based on engagement modes with green technology and environmental, social, and governance rating. *Environmental Science and Pollution Research*, 31(4), 5762-5783. [\[ISI Web of Science \(Impact Factor: 5.8\) and Scopus indexed; Q1\]](#).
 15. Ali, J., Hussain, K. N., Alnoor, A., **Muhsen, Y. R.**, & Atiyah, A. G. (2024). Benchmarking Methodology of Banks Based on Financial Sustainability Using CRITIC and RAFSI Techniques. *Decision Making: Applications in Management and Engineering*, 7(1), 315-341. [\[ISI Web of Science \(Impact Factor: 1.5\) and Scopus indexed; Q1\]](#).
 16. Abbas, S., Alnoor, A., Yin, T. S., Sadaa, A. M., **Muhsen, Y. R.**, Khaw, K. W., & Ganesan, Y. (2023). Antecedents of trustworthiness of social commerce platforms: a case of rural communities using multi group SEM & MCDM methods. *Electronic commerce research and applications*, 62, 101322. [\[ISI Web of Science \(Impact Factor: 6\) and Scopus indexed; Q1\]](#).
 17. Chew, X., Khaw, K. W., Alnoor, A., Ferasso, M., Al Halbusi, H., & **Muhsen, Y. R.** (2023). Circular economy of medical waste: novel intelligent medical waste management framework based on extension linear Diophantine fuzzy FDOSM and neural network approach. *Environmental Science and Pollution Research*, 30(21), 60473-60499. [\[ISI Web of Science \(Impact Factor: 5.8\) and Scopus indexed; Q1\]](#).

Conference Papers

1. **Muhsen, Y. R.**, & Al-hchaimi, A. A. J. (2024, June). Modelling Intelligent Agriculture Decision Support Tools to Boost Sustainable Digitalization: Evidence from MCDM Methods. In *International Conference on Explainable Artificial Intelligence in the Digital Sustainability* (pp. 93-105). Cham: Springer Nature Switzerland. [\[Scopus indexed\]](#).
2. Al-Enzi, S. H. Z., Abbas, S., Abboud, A. A., **Muhsen, Y. R.**, Al-Hchaimi, A. A. J., & Almosawi, Z. (2023). Exploring Research Trends of Metaverse: A Bibliometric Analysis. In *International Multi-Disciplinary Conference-Integrated Sciences and Technologies* (pp. 21-34). Springer, Cham. [\[Scopus indexed\]](#).

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3. Al-hchaimi, A. A. J., Alomari, M. F., **Muhsen, Y. R.**, Sulaiman, N. B., & Ali, S. H. (2024, June). Explainable Machine Learning for Real-Time Payment Fraud Detection: Building Trustworthy Models to Protect Financial Transactions. In International Conference on Explainable Artificial Intelligence in the Digital Sustainability (pp. 1-25). Cham: Springer Nature Switzerland. [\[Scopus indexed\]](#).
 4. Husin, N. A., Abdulsaeed, A. A., **Muhsen, Y. R.**, Zaidan, A. S., Alnoor, A., & Al-mawla, Z. R. (2023, December). Evaluation of Metaverse Tools Based on Privacy Model Using Fuzzy MCDM Approach. In International Multi-Disciplinary Conference-Integrated Sciences and Technologies (pp. 1-20). Cham: Springer Nature Switzerland. [\[Scopus indexed\]](#).

Edited Books

1. Alnoor, A. Camilleri, M. Al-Abrrow, H. Valeri, M. Gül Erkol, B. **Yousif R.M.**, (2024). Explainable Artificial Intelligence in the Digital Sustainability Administration. Singapore: Springer. [\[Scopus indexed\]](#).

Academic Teaching

Teaching responsibilities at T Department of Civil College of Engineering, Wasit University, Wasit, Iraq.

A guest lecturer for the following postgraduate courses:

- Knowledge Management (for MSc students).
- Research Methods.
- System Design and Practical Project.
- Operation Research.
- Introduction to Artificial Intelligence.

Professional and Community Service

- Editor board in Explainable Artificial Intelligence in the Digital Sustainability Administration. Singapore: Springer (2024).

Quality Assurance

- Member and head of many committees at the University of Wasit and the College of Engineering, including examination committees, audit committees, computer committees, and others.

Delivered Workshops

- How to do Bibliometric Analysis. University of Wasit. (August 2023).
- Hybrid Three Steps of Fuzzy Delphi. University of Wasit (March 2024).
- Publishing in High Impact Factor Journals. Management Technical College, Southern Technical University, Basrah, Iraq. (September 2024).

Referees

Dr. Nor Azura binti Husin, Department of Computer Science, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, n_azura@upm.edu.my
Dr. Alhamzah Alnoor, School of Management, Universiti Sains Malaysia, 11800 Pulau Pinang, Malaysia., alhamzah.malik@stu.edu.iq

- **Dr. Salah L Zubaidi**, Department of Civil College of Engineering, Wasit University, Wasit, Iraq, salahlafta@uowasit.edu.iq
- **Dr. Darko Božanić**, University of Defence in Belgrade, Military Academy, Belgrade, Serbia, darko.bozanic@va.mod.gov.rs