

Faculty CV Template

Elfadil Abdalla Mohamed

Academic Rank

Assistant Professor

Qualifications

- ✦ Ph.D. in Computer Science-Faculty of Computer Science and Information Systems University of Technology Malaysia, 2002, Malaysia.
- ✦ M.Sc. in Computer Science, Faculty of Computer Science and Information Systems, University of Technology Malaysia, 1997. Graduation degree: 3.55 out of 4.00
- ✦ B.Sc. Honour in Computer Sciences and Statistics, School of Mathematical Science, University of Khartoum, 1992, Khartoum, Sudan. Graduation Degree: Second class division one.

Research field(s)

- ✦ Data Analysis and data mining
- ✦ Database
- ✦ E-learning

Publications *last five years*

- ✦ Mohammed Azmi Al-Betar, Malik Sh. Braik, Elfadil A. Mohamed, Mohammed A. Awadallah & Mohamed Nador. (2024). Augmented electric eel foraging optimization algorithm for feature selection with high-dimensional biological and medical diagnosis. Neural Comput & Applic (2024). <https://doi.org/10.1007/s00521-024-10288-x>
- ✦ Nurul Athirah Nasarudin, Fatma Al Jasmi, Richard O. Sinnott, Nazar Zaki, Hany Al Ashwal, Elfadil A. Mohamed & Mohd Saberi Mohamad (2024). A review of deep learning models and online

healthcare databases for electronic health records and their use for health prediction. *Artif Intell Rev*, Volume 57, article number 249, (2024).

- ✦ Elfadil A. Mohamed, Malik Sh. Braik, Mohammed Azmi Al-Betar & Mohammed A. Awadallah (2024). Boosted Spider Wasp Optimizer for High-dimensional Feature Selection. *J Bionic Eng* (2024). 6-June-2024. <https://doi.org/10.1007/s42235-024-00558-8>.
- ✦ Elfadil A. Mohammed, Mahmoud Abou Naaj, Mirna Nachouki, & Riyadh Mehdi (2023). Predicting Student Grade Point Average: Comparison of Machine Learning Regression Algorithms. 2023 24th International Arab Conference on Information Technology, ACIT 2023 2023 24th International Arab Conference on Information Technology, ACIT 2023 Ajman 6 December 2023 through 8 December 2023 Code 198200.
- ✦ Mirna Nachouki, Elfadil A. Mohamed, Riyadh Mehdi, & Mahmoud Abou Naaj (2023). Student course grade prediction using the random forest algorithm: Analysis of predictors' importance. *Trends in Neuroscience and Education*, Volume 33, 2023. <https://doi.org/10.1016/j.tine.2023.100214>.
- ✦ Nazar Zaki, Turaev Sherzod, Shuaib Khaled, Krishnan Anusuya, & Elfadil Mohamed. (2023). Automating the mapping of course learning outcomes to program learning outcomes using natural language processing for accurate educational program evaluation. *Educ Inf Technol* (2023). <https://doi.org/10.1007/s10639-023-11877-4>
- ✦ Ibrahim Ahmed Elsiddig, Riyadh A.K. Mehdi, & Elfadil A. Mohamed (2023). The role of artificial intelligence in developing a banking risk index: an application of Adaptive Neural Network-Based Fuzzy Inference System (ANFIS). *Artif Intell Rev* (2023). <https://doi.org/10.1007/s10462-023-10473-9>.
- ✦ Mahmoud Abou Naaj, Riyadh Mehdi, Elfadil A. Mohamed and Mirna Nachouki (2023). Analysis of the Factors Affecting Student Performance Using a Neuro-Fuzzy Approach. *Educ. Sci.* 2023, 13, 313.
- ✦ Tetiana Habuza, Nazar Zaki, Elfadil A. Mohamed, and Yauhen Statsenko (2022). Deviation From Model of Normal Aging in Alzheimer's Disease: Application of Deep Learning to Structural MRI Data and Cognitive Tests. *IEEE ACCESS*, Vol (10), 2022, Pages 53234 – 53249. DIO: 10.1109/ACCESS.2022.3174601, (Scopus Indexed (A)).
- ✦ Elgilani Elshareif and Elfadil A. Mohamed (2021). The Effects of E-Learning on Students' Motivation to Learn in Higher Education. *Online Learning Journal*, Volume 25 Issue 3 , Sept, 2021, pp. 128-143. (Scopus Indexed (A*)).
- ✦ Nazar Zaki, Harsh Singh and Elfadil A. Mohamed (2021). Identifying Protein Complexes in Protein-protein Interaction Data Using Graph Convolutional Network. *IEEE ACCESS*, Vol (9), 2021, Pages 123717 – 123726. (Scopus Indexed (A)).
- ✦ Nazar Zaki and Elfadil A. Mohamed (2021). The Estimations of the COVID-19 Incubation Period: A Scoping Reviews of the Literature. *Journal of Infection and Public Health*, 8 February 2021, <https://doi.org/10.1016/j.jiph.2021.01.019>. (Scopus Indexed (A)).

- ✦ Elfadil A. Mohamed, Ibrahim Ahmed Elsiddig, Riyadh A.K. Mehdi, and Hanan Hussain (2021). Impact of corporate performance on stock price predictions in the UAE markets: Neuro-fuzzy model. Intelligent Systems in Accounting, Finance and Management. 18 January 2021, <https://doi.org/10.1002/isaf.1484>. (Scopus Indexed (A*)).
- ✦ M. M. Yagoub, Aishah A. Alsereidi, Elfadil A. Mohamed, Punitha Periyasamy, Reem Alameri, Salama Aldarmaki, and Yaqein Alhashmi. (2020). Newspapers as a validation proxy for GIS modelling in Fujairah, United Arab Emirates: identifying flood-prone areas. Natural Hazards Journal, 17 July 2020, DOI: <https://doi.org/10.1007/s11069-020-04161-y>. (Scopus Indexed (A))
- ✦ Nasser Taleb and Elfadil A. Mohamed (2020). "Cloud Computing Trends: A Literature Review." Academic Journal of Interdisciplinary Studies, Vol (9), No (1), January 2020. DOI: <https://doi.org/10.36941/ajis-2020-0008>. (Scopus Indexed).
- ✦ Balqis Al Breiki, Nazar Zaki, and Elfadil A. Mohamed (2019). "Using Educational Data Mining Techniques to Predict Student Performance." The International Conference on Electrical and Computing Technologies and Applications, 2019, November 19 - 21, 2019, RAK, UAE. IEEE Xplore Digital Library, DOI: 10.1109/ICECTA48151.2019.8959676. (Scopus Indexed).
- ✦ Vasila Al Khaldi, Nazar Zaki, Essam Zaneldin, and Elfadil A. Mohamed (2019). "Using Data Mining Techniques to Identify Construction Claims Causes: A Case Study." The International Conference on Electrical and Computing Technologies and Applications, 2019, November 19 - 21, 2019, RAK, UAE. IEEE Xplore Digital Library, DOI: 10.1109/ICECTA48151.2019.8959800. (Scopus Indexed).
- ✦ Elfadil Abdalla Mohamed, Nazar Zaki, and Mohammad Marjan (2019). "Current Trends and Challenges in Link Prediction Methods in Dynamic Social Networks: A Literature Review." Advances in Science, Technology and Engineering Systems Journal, Vol. 4, No. 6, 244-254 (2019). DOI: 10.25046/aj040631. (Scopus Indexed).
- ✦ Elfadil A. Mohamed, Elgilani El. Elshareif, Omer Ishag Eldai Mohamed (2019). "Designing a Generic Information Systems Audit Framework to Improve the Quality of Audit in Higher Education." Journal of Computer Science, Vol(15), Issue(5), PP. 664-672 May 10, 2019. DOI : 10.3844/jcssp.2019.664.672. (Scopus Indexed)
- ✦ Mariam AlMarzooqi, Srikanth Bezawada, Asayel AlNaqbi, Elfadil A. Mohamed, AlMheiri, A., Nazar Zaki (2018). "Increase the exploitation of mars satellite images via deep learning techniques." 2018 International Conference on Robotics, Control and Automation Engineering, RCAE 2018; Beijing; China. Association for Computing Machinery, DOI:

10.1145/3303714.3303732, Pages 171-175. (Scopus Indexed).

- ✦ Eiman Alothali, Nazar Zaki, Elfadil A. Mohamed, and Hany Alashwal (2018). “Detecting Social Bots on Twitter: A Literature Review. “ 2018 International Conference on Innovations in Information Technology (IIT). 18-19 Nov. 2018. IEEE Xplore Digital Library, DOI: 10.1109/INNOVATIONS.2018.8605995. Page : 175 – 180. (Scopus Indexed).
- ✦ Mohammad Marjan, Nazar Zaki, and Elfadil A. Mohamed (2018). “Link Prediction in Dynamic Social Networks: A Literature Review.” IEEE CiSt'18 5th Edition International IEEE Congress on Information Science and Technology, Marrakech, Morocco, October 21 - 27, 2018. IEEE Xplore Digital Library, DOI: 10.1109/CIST.2018.8596511. Pages 200-207. (Scopus Indexed).
- ✦ Maha Rahrouh, Nasser Taleb, and Elfadil A. Mohamed (2018). “Evaluating the Usefulness of E-Learning Management System Delivery in Higher Education.” Int. J. of Economics and Business Research 2018 - Vol. 16, No.2 pp. 162 – 181. (Scopus Indexed).

Courses Taught in last five years

- ✦ Database for Management (INT300)
- ✦ Database Management Systems (INT302)
- ✦ Change Management (INS401)
- ✦ Business Intelligence and Data Warehousing (INS402)
- ✦ Enterprise Systems (INT308)
- ✦ Business Process Management (INS307)
- ✦ Database Administration (INT321)
- ✦ Fundamentals of Software Engineering (INT305)
- ✦ Systems Analysis and Design (INS305)
- ✦ Distributed and Object Databases (INT425)
- ✦ Data Structure (INT204)
- ✦ Object Oriented Programming (INT202)
- ✦ Information technology project management (INT307)
- ✦ Information Technology in Business (INT103)
- ✦ Introduction to Data Analytics (DAT100)

Professional Experience

Attended Huawei Workshop, passed the HCIA-AI first examination. Huawei certified Attended several workshops organized by the Teaching and Learning Center (TLC) during the academic years 2021-2022 and 2022-2023.

Attended Oracle Academy workshop.

Attended the 2019 Hackathon Stakeholders Preparation Workshop.

Attended Professional development workshop on Bibliometric & Boosting Citation at Ajman University on 19th of January 2019.

Attended a workshop on App Development with Swift, Dubai 2018.

Attended a workshop about the use of Banner, the new introduced registration system. Attended a workshop on How to Write effectiveness Report from the Perspective of a CAA Reviewe which was held on May 4, 2021.

Attended a Webinar on Zoom about: Systematic Reviews and Meta-Analysis which was held on Thursday, 25 March 2021, 12:30 – 1:30 PM.

Committees Work

- ✦ Information Systems Program Coordinator
- ✦ College of Engineering and Information Technology Council (Member) ✦ Time-Table committee (Head of the committee).
- ✦ Assessment and Continuous improvement Committee (ACIC) (Head of the committee)
- ✦ College Effectiveness Committee (CEC)
- ✦ Artificial Intelligence Master committee (Member).

Honors and Awards

- Moodle Basic Admin Certification
- Huawei certified

Other Contributions and Achievements

- ✦ Participated in the re-accreditation of information systems program
- ✦ Prepared the Self-Study report for Application for Renewal of Accreditation of Information Systems Program 2021-2022
- ✦ Served as a reviewer for couple of papers in international journals and international conferences
- ✦ Served as External Examiner for Master program students
- ✦ Contributed in the preparation of the self-study for the Data analytics program.

- ✦ Responsible of Courses Equivalency related to the IT department