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El-Minia, Egypt
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Eman M. G. Younis

Education

Doctor of Philosophy, Informatics, CARDIFF UNIVERSITY, Cardiff, UK, 2009-2013,
awarded.

Thesis Title: "**Hybrid Geo-spatial Query Processing on the Semantic Web**"

Master of Science, Information Technology, Menoufia UNIVERSITY, EGYPT, 2004-2007,
awarded

• Thesis Title: "**Automatic Web Page Classification with Data Mining Techniques**"

Bachelor of Science, Information Systems & Technology, Zagazig University, Zagazig,
Egypt 1998-2002

• Very good with honor, GPA: 82.5%.

Research Interests

Geographic Information Systems, Data Mining, Text Mining, Web Mining, Information Retrieval, Semantic Web, Geospatial query processing, Geospatial data analysis, Geographic Question Answering systems, Analysis and quantifying Qualitative spatial information, Sensor data analysis, Machine Learning, Deep Learning, Emotion Recognition, Data analytics, Informatics, social media analytics and mining, and Data Science.

Publications

- Eiman Kanjo, Eman M.G. Younis, Nasser Sherkat, "Towards unravelling the relationship between on-body, environmental and emotion data using sensor information fusion approach, Information Fusion", Volume 40, 2018, Pages 18-31, ISSN 1566-2535.
- Lulwah Al-barrak, Eiman Kanjo&Eman M.G. Younis, "NeuroPlace: Categorizing Urban Places According to Mental States ", Plos One, 12, Sep, 2017.
- Eiman Kanjo, EmanYounis, Jim Ang, "Deep Learning Analysis of Physiological, Environmental and Location Sensor Data for Human Emotion Detection in the wild's", Information Fusion, 201⁹.
- FaizaGuerrache, EmanM.G.Younis, and Eiman Kanjo. 2016. Quantifying Environmental Noise impact on Heart Rate Variability. In Proceedings of the 8th EAI International Conference on Mobile Computing, Applications and Services (MobiCASE'16), Cambridge UK.
- Younis, E. M., Jones, C. B., Tanasescu, V., &Abdelmoty, A. I. (2012, September). Hybrid geo-spatial query methods on the Semantic Web with a spatially-enhanced index of DBpedia. In International Conference on Geographic Information Science (pp. 340-353). Springer Berlin Heidelberg.
- Younis, E. M. (2015). "Sentiment Analysis and Text Mining for Social Media Microblogs using Open Source Tools: An Empirical Study". International Journal of Computer Applications, 112(5).
- Younis, E. M. (2017). "An Overview of Crowdsourcing". Encyclopedia of Information Science and Technology, Fourth Edition, p.p (8023-8035), IGI Global.

- Younis, E.M.G., Kanjo, E. & Chamberlain, A. Designing and evaluating mobile self-reporting techniques: crowdsourcing for citizen science. *Pers Ubiquit Comput* 23, 329–338 (2019).
- Xiongwei Zhang, Hager Saleh, Eman M. G. Younis, Radhya Sahal, Abdelmgeid A. Ali, "Predicting Coronavirus Pandemic in Real-Time Using Machine Learning and Big Data Streaming System", *Complexity*, vol. 2020, Article ID 6688912, 10 pages, 2020.
- Hager Ahmed, Eman M.G. Younis, Abdeltawab Hendawi, Abdelmgeid A. Ali, Heart disease identification from patients' social posts, machine learning solution on Spark, *Future Generation Computer Systems*, Volume 111, 2020, Pages 714-722.
- Saleh, H., Younis, E.M.G., Sahal, R. et al. Predicting Systolic Blood Pressure in Real-Time Using Streaming Data and Deep Learning. *Mobile Netw Appl* 26, 326–335 (2021).
- H. Ahmed, E. M. G. Younis and A. A. Ali, "Predicting Diabetes using Distributed Machine Learning based on Apache Spark," *2020 International Conference on Innovative Trends in Communication and Computer Engineering (ITCE)*, 2020.
- Houssein, Essam H., et al. "An efficient Manta Ray Foraging Optimization algorithm for parameter extraction of three-diode photovoltaic model." *Computers & Electrical Engineering* 94 (2021): 107304.
- Houssein, E. H., Nageh, G., Abd Elaziz, M., & Younis, E. (2021). An efficient Equilibrium Optimizer for parameters identification of photovoltaic modules. *PeerJ Computer Science*, 7, e708.
- BRG Elshoky, EMG Younis, AA Ali, OAS Ibrahim – "Comparing automated and non-automated machine learning for autism spectrum disorders classification using facial images" *ETRI Journal*, 2022.
- EMG Younis, SM Zaki, E Kanjo, EH Houssein – "Evaluating Ensemble Learning Methods for Multi-Modal Emotion Recognition Using Sensor Data Fusion" *Sensors*, 2022.
- Essam Halim Houssein, Gamela Nageh Zaki, Laith Abualigah, Eman MG Younis, "Metaheuristics for parameter estimation of solar photovoltaic cells: a comprehensive review" *Integrating meta-heuristics and machine learning*, 2022.
- OAS Ibrahim, EMG Younis – "Hybrid online–offline learning to rank using simulated annealing strategy based on dependent click model" *Knowledge and Information Systems*, 2022.
- Essam H Houssein, Mosa E Hosney, Waleed M Mohamed, Abdelmgeid A Ali, Eman MG Younis "Fuzzy-based hunger games search algorithm for global optimization and feature selection using medical data"- *Neural Computing and Applications*, 2022.
- Osman Ali Sadek Ibrahim, Eman MG Younis, "Combining variable neighborhood with gradient ascent for learning to rank problem", *Neural Computing and Applications*, .2023.
- Eman MG Younis, Someya Mohsen Zaki, Essam Halim Houssein, "Machine Learning and Sensor Data Fusion for Emotion Recognition", in *Book Encyclopedia of Data Science and Machine Learning*, 2023.
- E Younis, MN Mahmoud, IA Ibrahim – " Python Libraries Implementation for Brain Tumor Detection Using MR Images Using Machine Learning Models" , in *Book: Advanced Interdisciplinary Applications of Machine Learning Python Libraries for Data Science* , 2023.
- EH Houssein, ME Hosney, D Oliva, EMG Younis, AA Ali, "An efficient discrete rat swarm optimizer for global optimization and feature selection in chemoinformatics" *Knowledge-Based Systems*, 2023.

- HM Elhalafawy, AA Ali, EMG Younis, MM Mokhtar – “Evaluation of delay tolerant network routing protocols for data streaming through LEO constellation.” The Egyptian Journal of Remote Sensing and Space Science, 2023.
- Essam H Houssein, Mosa E Hosney, Marwa M Emam, Eman MG Younis, Abdelmgeid A Ali, Waleed M Mohamed,” Soft computing techniques for biomedical data analysis: open issues and challenges”, Artificial Intelligence Review, 2023.
- EMG Younis, S Mohsen, EH Hussein, OAS Ibrahim - “Machine learning for human emotion recognition: a comprehensive review” Neural Computing and Applications, 2024.
- EA Mohamed, WN Ismail, OAS Ibrahim, EMG Younis - “A two-stage framework for Arabic social media text misinformation detection combining data augmentation and AraBERT” Social Network Analysis and Mining, 2024.
- Eman MG Younis, Mahmoud N Mahmoud, Abdullah M Albarrak, Ibrahim A Ibrahim, " A Hybrid Deep Learning Model with Data Augmentation to Improve Tumor Classification Using MRI Images" Diagnostics, 2024.
- Hager M Elhalafawy, Abdelmgeid A Ali, Eman MG Younis, M Medhat Mokhtar. " Evaluation of delay tolerant network routing protocols for data streaming through leo constellation" The Egyptian Journal of Remote Sensing and Space Sciences, 2023.
- Osman Ali Sadek Ibrahim, Eman MG Younis, Ebtsam A Mohamed, Walaa N Ismail, "Revisiting recommender systems: an investigative survey" Neural Computing and Applications, 2025.
- Essam H Houssein, Someya Mohsen, Marwa M Emam, Nagwan Abdel Samee, Reem Ibrahim Alkanhel, Eman MG Younis, " Leveraging explainable artificial intelligence for emotional label prediction through health sensor monitoring", Cluster Computing, 2025.
- Gomaa Elmokhtar, Waleed M Mohamed, Engy El-Shafeiy, Eman MG Younis, " Enhanced sentiment classification of phone brands on Twitter with a modified walrus optimizer and novel ensemble method, Neural Computing and Applications, 2025.
- Essam H Houssein, Meran Mohamed, Eman MG Younis, Waleed M Mohamed, " A hybrid Harris Hawks Optimization with Support Vector Regression for air quality forecasting", Scientific Reports, 2025.
- EM Younis, IA Ibrahim, MN Mahmoud, AM Albarrak, "Hybrid of VGG-16 and FTVT-b16 Models to Enhance Brain Tumors Classification Using MRI Images", Diagnostics, 16, 2025.
- Nagwa Gamal, Eman MG Younis, Waleed M Makram, " Enhancing credit card fraud detection with a hybrid approach using machine and deep learning", Scientific Reports, 2026.
- Essam H Houssein, Amr M Gamal, Eman MG Younis, Ebtsam Mohamed, "Explainable artificial intelligence for brain tumor classification via fine-tuned transfer learning", Discover Artificial Intelligence, 2026.

Research Experience

Research Supervisor, Minia University, Information systems Department, supervising many master and PhD students 2018-now.

Researcher, Computing and Technology, Nottingham Trent University, 2015-2017
Machine Learning, Emotion Recognition, Sensor data Analysis, Data analytics.

Research Assistant, Computer Science School, Cardiff University, Cardiff, 2009 - 2013
PhD research in using semantic web resources for answering geo-spatial questions and geo-spatial query processing.

Research Assistant, Computer Science School, Menoufia University, Egypt, 2003 - 2007
Master research in utilizing data mining techniques in classifying web pages using multiple criteria.

Teaching, Research and Managerial Expertise

- 1 Teaching Assistant, Faculty of Computers and information, Information systems Department, Minia University, Egypt 2003-2009.
- 2 Teaching Assistant, Faculty of Computer Science & Informatics, Cardiff University 2011-2012.
- 3 Lecturer, Faculty of Computers and information, Information Systems Department, Minia University, Egypt 2014.
- 4 Post-doc researcher, NTU, Computing and Technology, Nottingham, United Kingdom, 2015-2017.
- 5 Assistant Professor, Faculty of Computers and information, Information systems Department, Minia University, Egypt 2018- 2019.
- 6 Associate Professor, Head of IS department, Faculty of Computers and information, Information systems Department, Minia University, Egypt 2019-2021.
- 7 Associate Professor, Vice dean for community service and environmental development, Faculty of Computers and information, Information systems Department, Minia University, Egypt 2022-2025.
- 8 Professor of Information Systems. Vice dean for community service and environmental development, Faculty of Computers and information, Information systems Department, Minia University, Egypt Nov2025 Aug2025.
- 9 Professor of Information Systems. Vice dean for Education and students affairs, Faculty of Computers and information, Information systems Department, Minia University, Egypt Aug 2025-now.

Technical Skills

Operation Systems

- Dos, Windows and Linux

Programming Languages

- C
- C++
- Visual Basic
- Visual C#.NET
- Pascal
- Java
- Python

Web Development & Design:

- HTML
- ASP
- ASP. Net (using C#)

Database Programming:

- Access
- SQL oracle certified
- SQL Server
- Visual C# (ADO.net)
- Oracle 7, 10g certified

- PostgreSQL and PostGis spatial extensions

Multimedia and Graphics:

- Photoshop
- Corel Draw7
- Corel Paint
- Flash.
- Director 8

GIS and statistical analysis Tools

- Quantum GIS
- ARCGIS
- R packages for statistical analysis
- Spss

Data Science and Machine Learning Tools

- Python programming and associated packages such as sklearn, keras, and pytorch.
- R packages for data analysis and machine learning.
- Out of the box machine learning and data mining tools such as Weka, Rapid miner and others.

Languages

Arabic: Excellent mother tongue.

English: Excellent IELTS 6.5 Listening: 7, Reading: 7, Speaking: 6, Writing: 6

French: Basic.