Curriculum Vitae

Prof. Omar Mustafa Al-Sallabi
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Qualifications:

- **Ph.D. : Computer Science**, University of Manchester, Manchester, UK, 2003.
- **MSc. Software Systems Technology**, University of Sheffield, Sheffield, UK,1992.
- **B.Sc.: Computer Science,** Garyounis University, Benghazi, Libya, 1987.

Current jobs:

1. Full-Time: Professor at the Faculty of Information Technology
2. Part-Time: Head of the Academy of Graduate Studies Computer Science Department.

Previous jobs:

- Executive Director of the Information and Communication Technology Center at the University of Benghazi.
- Dean of the Faculty of Information Technology at the University of Benghazi.
- Executive Director of the Research and Consultation Center, University of Benghazi
- Head of the Quality Assurance Office at the Faculty of Information Technology.
- Head of the Graduate Studies Office at the Faculty of Information Technology.
- Head of the Computer Science Department, Academy of Higher Studies, Benghazi
- Head of the Computer Science Department at the Faculty of Information Technology
- Head of the Basic and Engineering Sciences School, Academy of Graduate Studies, Benghazi.

- Head of the Computer Science Department, Faculty of Science, University of Benghazi.
- Lecturer in the Department of Computer Science, Faculty of Science, University of Benghazi.
- Assistant Lecturer, Faculty of Science, University of Benghazi.
- Head of the Computer Department at Al-Jouf Oil Company.
- Systems Analyst and Programmer at Al-Jouf Oil Company.

Participation in the Establishment of the Following:

- **Faculty of Information Technology**, University of Benghazi,2006
- **Center for Information and Communication Technology**, University of Benghazi,2018
- **Faculty of Information Technology**, Balagra University, Benghazi,2022
- **Academic Development Center**, University of Benghazi,2012
- **Department of Information Technology**, Academy of Graduate Studies,2009
- **Computer Department**, Al-Jowfe Company for Oil Technology,1990
- **10-March Intermediate Institute**, Benghazi,1995

Board Member of Directors for:

- **Currently**: Tatweer for Research and Information Technology
- **2012–2016**: The Libyan Communications and Information Technology Holding Company
- **1995–2015**: Alofoq Al Muneer Education and Training Company

Most Important Committees

- **Higher Education Automation Project**, Ministry of Higher Education, Tripoli, 2007
- **Quality and Accreditation Committee,** The Center for Accreditation, Tripoli, 2009
- **Strategic Plan for Tatweer Research Company,** Benghazi, 2010
- **Strategic Plan for the Communication Sector,** LPTIC, 2013
- **Benghazi University Automation Project,** 2014
- **Strategic Plan for University Digital Transformation,** Benghazi University, 2019
- **Strategic Plan for the Medical Faculty,** Benghazi University, 2023
- **Libya's Strategic Plan for Digital Transformation,** Economic Development Council, Tripoli, 2024

Publications:

1. **Sallabi**, Harrison, A Persistent Programming Environment for Teaching OO Concepts" (COMPSAC 2002 conference), Oxford, UK.
2. **Sallabi**, Harrison, An Initial Object-Oriented Programming Language (IOPL) and its Implementation, IEEE journal, 2004.
3. **Sallabi**, Shaari, Knowledge innovations systems, Journal of Science and its applications, Benghazi-Libya**,** 2006.
4. **Sallabi**, Elshelwe, Transformation Model from Requirements specification to Design (TRD-Model), Journal of Science and its applications, 2006
5. **Sallabi**, Harrison, The implementation of a Persistent Type-Safe Object-Oriented Programming Language**,** the 4th International Conference on Innovations in Information Technology (Innovations'07), Dubai, 2007.
6. **Sallabi**, Elsipihe, Design, and Implementation of an E-Learning System for Higher Education, itc2008, Tripoli.
7. **Sallabi**, Hagal, Software requirements specification based on prototyping, Journal of Science and its applications, Garyounis University 2008.
8. **Sallabi**, Maood, Boras, NC, S Tool for software quality assurance using CMMI, Journal of Science and its applications, Garyounis University 2008.
9. **Sallabi**, Haddad – An Improved Genetic Algorithm to Solve the Traveling Salesman Problem, WASET conference, ISBN2070-3740, Rome, Italy,2009.
10. **Sallabi**, Elsipihy, - Asynchronous Learning Distance, The 3rd National Conference on Basic Sciences, Gharyan Libya, 2009.
11. **Sallabi**, Arebi, Information Technology in Libyan Universities, Arab conference of High education and Labor market, Misrata, Libya, 2010.
12. **Sallabi**, Haddad, A new Hybrid Genetic and Simulated Annealing Algorithm to solve Traveling Salesman Problem, WEC2010 conference, London, UK, 2010.
13. **Sallabi**, Aljamal, A New Technique for Arabic Handwritten Recognition Based on UHS Database, ACIT2010, Benghazi, Libya,2010.
14. **Sallabi**, Hajal, A Structured Approach for extracting functional requirements specification, ACIT2011, Rayhad, Kingdom of Saudi Arabia,2011.
15. **Sallabi**, Sahly, Design Pattern Selection: A Solution Strategy Method**,** ICCSII12, Sharaja, UAE,2012.
16. Eiman M. Sahly, Rabeia N. Abdleati, **Omar M. Sallabi**, Guide to Design Pattern Selection based on MAS Technology, The 12th IASTED International Conference on Software Engineering, Innsbruck, Austria; 02/2013.

17. Eiman M. Salah, Maha T. Zabata, **Omar M. Sallabi,"** DPS: Overview of Design Pattern Selection Based on MAS Technology", Advances in Intelligent Systems and Computing Volume 217, 2013, pp 243-250
18. **Omar Sallabi**, Ahmad Benhalloum, Mohammed Hagal, *A Cyclomatic Complexity Visual Tool For Simple Source Code Coverage,* International Journal of Advanced Research in Computer Science and Software Engineering, volume7, Issue 5- 2017, Pages 136-141, Publisher ISSN: 2277 128X.
19. **Omar M. Sallabi**, Tawfik Ezat Tawfik, Kenz A. Bozed, Computer-Aided Detection of the External Borders of the Breast in Digital Mammogram Images, International Journal of Computer Science, Communication & Information Technology, CSCIT, Volume 4, Issue 2017, pages 1-3.
20. **Omar Sallabi,** Eiman M. Salah. *A MULTI-AGENT SYSTEM TO SUPPORT DESIGN PATTERN RECOMMENDATION*" that is published in ICEMIS'20: Proceedings of the 6th International Conference on Engineering & MIS 2020
21. Hafsa Mansouri, **Omar Sallabi**, Abdelsalam M. Maatuk," Using Partitioned-Based Method for Optimal Epsilon Parameter Extraction on Density-Based Clustering", IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering MI-STA, 2021.
22. Eiman M. Saleh, Salwa Elakeili,**Omar Sallabi**, Howayda Elmajpri " Rule-Based Expert System for Diagnosing Common Childhood Illnesses: Smartphone App to Assist in Curbing the Spread of COVID-19, The 7th International Conference on Engineering & MIS 2021October 2021 Article No.: 33Pages 1–7 https://doi.org/10.1145/3492547.3492609.
23. Hafsa Abdjalil Mansori, Abdelsalam Maatuk, **Omar Sallabi** and Essa Gebri "An Efficient Enhanced Algorithm for Clustering Large Datasets', The 7th International Conference on Engineering & MIS 2021October 2021 Article No.: 34 Pages 1–6 https://doi.org/10.1145/3492547.3492610.
24. Mohamed Mami, Ahmed Altriki and **Omar Sallabi,** "Possibilities of Applying the Blended Learning Approach in the Faculty of Information Technology," The 7th International Conference on Engineering & MIS 2021October 2021 Article No.: 52Pages 1–5 https://doi.org/10.1145/3492547.3492631.
25. Gadalla, E.R., **Sallabi**, O.M., Kasih, T.M., Emhemed, A.A.A. (2022). Evaluation of the Recommended Algorithms in the Internet of Things. Artificial Intelligence of Things for Smart Green Energy Management. Studies in Systems, Decision, and Control, vol 446. Springer, Cham. https://doi.org/10.1007/978-3-031-04851-7_9
26. **Omar Sallabi**, Rafea M. Almejrb, and Abdelhafid Ali Mohamed, "Applying Catboost Regression Model for Prediction of House Prices," ICEEIT 2022, Accepted.
27. Osama Alarafee, **Omar Sallabi**, Ahmed Altriki, and Abdelsalam Maatuk, "A Framework for Exploring Factors Affecting the Usability of Electronic Payment Systems," ICEEIT 2022
28. Almejarb, Rafea M; **Sallabi, Omar M**; Bushaala, Fawzi Farag; Mohamed, Abdelhafid Ali; Fawzi, Abdullah; Adel, Rajab; ,A Proposed Method for Detecting Network Intrusion Using

Deep Learning Approach,2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA),,,83-88,2023,IEEE

29. Abdulrasul, Asiel Hilal; **Sallabi, Omar** M; Elaish, Monther M; ,A Proposed Technology Acceptance Model for Measuring Cloud Computing Usage in Education,2023 IEEE 11th International Conference on Systems and Control (ICSC),,,252-257,2023,IEEE
30. Aldeeb, Fatimah H; **Sallabi, Omar** M; Elaish, Monther M; Hwang, Gwo-Jen; ,"Enhancing students' learning achievements, self-efficacy, and motivation using mobile augmented reality",Journal of Computer Assisted Learning,,,,2024,"John Wiley & Sons, Inc. Chichester, UK".
31. E. A. Eldharif, O. M. Sallabi and A. A. Mosa Eltharif, "An Improved Genetic Algorithm Tool for Exam Timetabling Solutions," *2024 IEEE 4th International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA)*, Tripoli, Libya, 2024, pp. 672-677, doi: 10.1109/MI-STA61267.2024.10599714.
32. O. M. Sallabi, W. H. Benamer, E. A. O. Elfallah and N. Abdulrahman, "A Proposed Blockchain-Based Framework for Achieving Consensus in Land Registries," *2025 IEEE 7th Symposium on Computers & Informatics (ISCI)*, Kuala Lumpur, Malaysia, 2025, pp. 262-267, doi: 10.1109/ISCI65687.2025.11167633.

Supervised Master Theses:

A) Benghazi University:

1. A Prototype Model for Clarifying System Requirements Specifications, 2008.
2. Knowledge innovations framework, 2008.
3. New Genetic Algorithm Operations to Solve Travel Salesman Problem, 2009.
4. A persistent Object-Oriented store based on XML, 2009.
5. Design and Implementation of a Spatial Database Application, 2010.
6. Using an innovative approach for extracting systems requirements, 2011.
7. XML-Based Parser to Extract Design Pattern in XML Files,2012.
8. Design Pattern Selection based on MAS Technology, 2013
9. A Reverse Engineering Approach For Object-Oriented Systems,2015
10. Cost-based Scheduling of Bag of Tasks Applications in Cloud Environment, 2016.
11. Solving the Problems of Timetable Using Genetic Algorithm Case Study: Faculty of Information Technology Timetable.2018.
12. IoT Authentication Approach, 2019.
13. A Framework to Enhance Software Risk Management at Requirement Engineering Phase for Software Systems,2021.
14. An Enhanced DBSCAN Clustering Algorithm: Determination of Optimal Epsilon (Eps) Value,2021.
15. Possibilities of Applying the Blended Learning Approach In the faculty of Information Technology,2021.
16. AN APPROACH FOR INVOLVING THE END-USER IN THE SCRUM METHOD USING REMOTE USABILITY TESTING, 2022

17. Exploring Factors Affecting the Usability of Electronic Payment By Using A Hybrid of TAM and TRI Models.
18. Improving flexibility in Business Process Modeling based on Requirements Change Management.

B) Academy of Graduate Studies - Benghazi Branch:

1. From requirements to design model, 2006.
2. Using Data Mining Techniques for Detecting Hepatitis Cases, 2006.
3. Persistent object storage for JAVA, 2007.
4. Design and Implementation of an E-Learning System for Higher Education, 2007.
5. E-Schools and their Applications in Libya, 2008.
6. Using RFID in traffic for car validity checking, 2010.
7. Time Saving Tool for Web Mining using Google Web Services,2010.
8. Handwriting recognition, 2010.
9. Using GA to solve the School Bus Routing Problem, 2016.
10. Evaluation of readiness to move to cloud computing in Libya,2018.
11. Steganography Algorithm To Hide Secret Text Message Inside A Color Image,2019.
12. Mobile Ticketing: Secure Framework for Libyan Airlines Ticketing Based on SMS,2019.
13. Security Issues in Cloud Computing Environment,2019
14. Study and Evaluation of Dynamic Multipoint Virtual Private Network with Different Dynamic Routing Protocols,2021.
15. Measuring teachers' usability of some cloud computing applications using a technology acceptance model (TAM)