

Curriculum Vitae



Name: Mohamed Ali Salem Hagal

Date and Birth of Place: 14-10-1965, Benghazi-Libya

Marital Status: Married + 4 children

Email: Mohamed.hagal@uob.edu.ly

Academic Qualifications

Degree	Year of award	AffiliationInstitution	Major
PhD	2018	University of Kastamonu, Turkey	Software engineering
Master	2008	Faculty of InformationTechnology,University of Benghazi	Software engineering
Bachelor	1989	Faculty of Science,University of Benghazi	Computer Science

Adminstartive experience

- Head of Software Engineering Department, Faculty of Information Technology - University of Benghazi, from 2023 to present.
- Director of the Office of Graduate Studies, Faculty of Information Technology - University of Benghazi, from 2019 to 2021.
- Quality Assurance Coordinator, Software Engineering Department, from 2010 to 2014

Work Experience

Job Nature	Employer Name	From	To
Associate professor	Faculty of InformationTechnology,BenghaziUniversity	2023	pesent
Assistant professor	Faculty of InformationTechnology,BenghaziUniversity	2019	2023
Lecturer	Faculty of InformationTechnology,BenghaziUniversity	2012	2018
Qualitycoordinator	Software engineering department	2010	2013
Lecturer assistant	Faculty of InformationTechnology,Benghazi University	2008	2012
Teaching assistant	Faculty of science, Benghazi University, Libya.	1992	2008
Trainer of “ICDL” Certificate	Researchandconsultationcentre,BenghaziUniversity-Libya.	2008	2008
Developer	Many software applications in some companies	1992	2005
Software Engineer	General electrical company,Benghazi-Libya	1989	1992

PUBLICATIONS

First: Books

Mohamed Hagal and et-al, Algorithms and data structures (Academic Book-Arabic edition), ISBN:978-1-0940-8,2012

Second: Research Papers

Mohamed Hagal et-al (2012), Algorithms and data structures (Academic Book- Arabic edition), ISBN:978-1-0940-8, Benghazi, Libya.

Hagal, M. A., &Sallabi, O. M. (2011).A Structured Approach for Extracting Functional Requirements from Unclear Customers.In Arab Conference on Information Technology (ACIT International), International conference on (pp. 67-73). Riyadh, Saudi.
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El-Shaari, M. A., Hagal, M. A., & El-Badry, Z. S. (2011).A General Framework to Bridge the Gap between Conceptual System and Abstract System in Software Development.In Arab Conference on Information Technology (ACIT International), International conference on (pp. 61-65).Riyadh, Saudi.

Hagal, M. A., &Fazzani, F. H. (2012, December).A use case map as a visual approach to reduce the degree of inconsistency. In *Computer Systems and Industrial Informatics (ICCSII), 2012 International Conference on* (pp. 1-4). IEEE.

Hagal, M. A., &Alshareef, S. F. (2013, December). A systematic approach to generate and clarify consistent requirements.Presented at *IT Convergence and Security conference (ICITCS)*, (pp. 1-4).Macau, China, IEEE.

Abdelaziz, T. M., Zada, Y. N., &Hagal, M. A. (2014).AStructural APPROACH TO IMPROVE SOFTWARE DESIGN REUSABILITY., presented at international conference on Software Engineering and Applications (JSES2014), Zurich, Switzerland.

Hagal, M. &Kandemili F. (2017), "Reducing missing requirements issues: Complete, Unambiguous and Necessary Requirements Elicitation", *International journal of Advanced research in computer science and software engineering* 7(1), pp 10-14.

Sallabi, O., Benhaloum, A. & Hagal, M. (2017), "A cyclomatic complexity Visual tool for simple source code coverage", *International journal of Advanced research in computer science and software engineering*, 7(5), pp 136-141.

Hagal, M. A. (2017), "Do Exception handling a hard task and should be delayed to later stages?", *International Conference on Multidisciplinary, Engineering, Science, Education and Technology (IMESET'17 Baku)*, (pp. 47), Azerbaijan Technical University, Baku, Azerbaijan.

Hagal, M., Kandemirli, F. & Amsaad F. (2017), "Developers' Views Regarding Exception Handling in Software Development", presented at *International Conference On Recent Advances in Computer Science and Information Technology (ICRACSIT)*, pp 62-65, Istanbul, Turkey.

Azbaki, O., Hagal, M., Rajab, A. (2021) shikawa Model for Improving the use of Brainstorming Technique to Elicit User Requirements, ", presented at 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering MI-STA, IEEE.

B. Alshokry, G., A. Hagal, M., & A. Aljabour, B. (2021, October). Tracking and Reporting Software Maintenance Requests Challenges in CMMS Systems: Proposing a custom computerized maintenance management systems CMMS tool, especially designed for software systems maintenance. In *The 7th International Conference on Engineering & MIS 2021* (pp. 1-5).

Sultan, M., Tawill, T., Hagal, M., & Elakeili, S. (2022, May). Improving Use Case Points Techniques to Support Size Estimation of Software Projects. In *2022 IEEE 2nd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA)* (pp. 267-272). IEEE.

Hagal, M. A., & Saeid, F. F. M. (2022, July). A framework for improving the process of discovering potential errors at the requirements engineering stage. In *2022 International Conference on Engineering & MIS (ICEMIS)* (pp. 1-7). IEEE.

Alfsai, E. H., Bozed, K. A., & Hagal, M. A. (2023, May). Decision support system of staff member promotion based on cloud computing (Case Study University Of Benghazi). In *2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA)* (pp. 457-462). IEEE. Hagal, M., Al-

Awami, A. F., & Elakeili, S. (2024, May). A framework for improving software development process hybridization of Extreme Programming, Feature-Driven Development and Waterfall. In 2024 IEEE 4th International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA) (pp. 13-19). IEEE.

Ali, T. Z., Hagal, M. A., Elmarzaki, H. A., & Maatuk, A. M. (2024, May). Evaluating the Extent of Application of Software Engineering Concepts in Graduation Projects: A Case Study. In 2024 IEEE 4th International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA) (pp. 130-135). IEEE.

Rashid, A. F., Hagal, M. A., & El-Firjani, F. N. (2024, November). A Study to Investigate Software Failure Factors in Libyan Organizations. In 2024 International Symposium of Systems, Advanced Technologies and Knowledge (ISSATK) (pp. 1-6). IEEE.

Hagal, M., & Altarhouni, S. (2025). Towards an Enhanced Approach for Big Data Requirement Generation Based on the KAOS Model: A Case Study of Electronic Health Records in Benghazi-Libya. Wadi Alshatti University Journal of Pure and Applied Sciences, 300-308.

Research Interests

- Requirements engineering
- Object Oriented Software analysis and Design
- Software project management
- Reverse engineering
- Re-engineering
- Modelling
- Software Testing
- Components Reuse
- Software maintenance
- Natural language processing