



Professor Khalil Saeed Mohammed Yahya Al-Wagih, PhD

**Department of Computer Sciences
Thamar University
Yemen**

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Personal Details

- Place and Date of Birth: Hodeida, Yemen 13/06/1973 Nationality: Yemeni
- Status: Married
- Children: A Daughter and 3 Sons

Education

- **Ph.D. in Computer Science, University of Mosul, Mosul, Iraq, 2004.**
- **Master of Science in Computer Science, University of Mosul, Mosul, Iraq, 1999.**
- **Bachelor of Science in Computer Science, University of Mosul, Mosul, Iraq, 1996.**

Languages

- Arabic: Mother Tongue
- English: Very Good

Academic Experience

- Professor, since July 2015
- Associate Professor, February 2010
- Assistant Professor, September 2004

Personal Vision

Achieve excellence to become one of the pioneers of knowledge and practice in the areas of computing and artificial intelligence.

Personal Mission

Contributing to better employment and optimization of knowledge, research and technology in the light of the needs and values of society and fostering entrepreneurship and volunteer work.

Skills

- Work in teams of high spirit.
- Well-developed organizational skills enabling the development of effective working relationships with students; academic, technical and administrative colleagues.
- Excellent presentation/communication skills developed through various conferences paper & research group seminars presentation.
- Ability to manage priorities in the challenge of competing demands and tight deadlines
- Communication and openness.
- Interaction with diverse cultures.
- The spirit of challenge and perseverance.

Research Interests

- Exploring new challenges in Computer Sciences and Information Technologies to propose sophisticated solutions to real problems via intelligent modeling approaches. This includes various areas such as artificial intelligence, machine learning, deep learning, big data and data mining.

Hobbies

- Travel
- Reading
- Human Development Activities

**Course
Teaching
Experience**

**For Postgraduate Studies (Universities: Thamar – Taiz – Yemen
Academy for Postgraduate Studies – Sciences and Technology – Sheba –
Modern Sciences – Al-Andalus – Al-Razi)**

Advanced Intelligence	Artificial	Advanced and Simulation	Modeling	Scientific Methodologies	Research
Advanced Data Mining		Advanced IT Project Management		Advanced Information Systems	
Advanced Analysis and Design	System	Advanced Engineering	Software	Advanced Architecture	Enterprise
Business Intelligence		Robotics and Intelligent Control			

○ **For Undergraduate Studies (Universities: Thamar –Sciences and Technology – Sheba – Al-Andalus – Modern Sciences – Emirates International – Al-Razi)**

Computer Programming		Analysis and Design of Algorithms		Data Structures	
Computation Theory		Compilers Techniques		Micro-Processors	
Computer Architecture		Assembly Languages		Operating Systems	
System Analysis and Design		Software Engineering		IT Project Management	
Parallel Processing		Modeling and Simulation		Intelligent Control	
Artificial Intelligence		Artificial Networks	Neural	Decision Systems	Support
Soft Computing		Software Quality		Software Testing	
System Reliability Engineering					

**Work
Experience**

- ○ **October 2020 until now:** President of Al-Razi University
- **April 2019 until October 2020:** Member of the Council of Academic Accreditation and Quality Assurance of Higher Education
- **December 2018 until October 2020:** Dean of Faculty of Engineering and Information Technology, Emirates International University-Sana'a.
- **November 2014 until June 2015:** Acting- President of Thamar University
- **July 2010 until November 2014:** Vice- President of Thamar University for Students Affairs.
- **February 2009 until December 2014:** Director of computer and Information Technology Center.
- **2007 until December 2014:** Coordinator of Erasmus Maundus SALAM Program (External Window of European Culture Exchange)
- **January 2007 until July 2010:** Dean of Faculty of Computer Science and Information Systems.

- **March 2005 until February 2009:** President of Computer and Informatics Center.
- **February 2005 until January 2007:** Head of Computer Science Dept.
- **2004 until present:** Professor at the Computer Science Dept and Information Technology Dept, Tamar University.
- **2010 until present:** Professor of postgraduate studies at the Computer Science, Tamar University.
- **2013 until present:** Professor at Postgraduate Center, Faculty of Engineering, Taiz University.
- **2014 until present;** Professor at European International Academy for Graduate Studies.
- **2014 until present;** Professor at Yemeni International Academy for Graduate Studies.
- **2016 until present;** Professor at University of Modern Sciences – Postgraduate Faculty.
- **2016 until present;** Professor at Sheba University – Postgraduate Faculty.
- **2018 until present;** Professor at Sana'a University.

Administrative Experience

- **Member of many committees at Tamar University:**
 - A member of the steering committee of the project information and communication technology.
 - Head of Teamwork of design and implementation of Tamar University website.
 - Chairman of the Commission to prepare a study project of university network: cables and equipment
 - Chairman of the Committee on the establishment of the Department of Information Technology
 - A member of the Commission on the Status of the preliminary study for the establishment of the Al-Bayda University
 - Member of the Training Committee and the construction and strengthening the capacity of institutions of higher education - to project information and communication technology in Yemeni universities
 - Member of the Board of Library Affairs
 - Member of the Higher Committee to oversee the procedures for the appointment applicant's academic university
 - Member of the committee to develop the strategy of Tamar University
 - Member of Editorial Board of Applied Sciences Journal
- **Member of Advisory Board at Al-Andalus University**
- **Member of Academic Board at Sheba University**
- **Member of Postgraduate Board at University of Modern Sciences**
- **Member of Juries Board of The Annual Conferences of Information Technologies and Networks in Yemen at Al-Andalus University**
- **Trainer**

Publications

○ Ph.D. and M. Sc. Thesis

- Simulation of Single Target Tracking Techniques (Ph.D. Thesis)
- Parallel Algorithms for Solving Unconstraint Optimization Problems on MIMD Computers (Master Thesis)

○ Scientific Articles

1. "Parallel Shooting Approaches for Solving Unconstraint Optimization Problems", Raf. Journal, Vol. 12, 2000, Iraq.
2. "Fuzzy Logic Approaches for Target Tracking", Engineering Journal of the University of Qatar, Vol. 18, 2005, Qatar.
3. "Approximation Solution of Boundary Conditions of Partial Differential Equations by Using Artificial Neural Networks", Thamar University Journal for Studies and research, Vol. 6, 2007, Yemen
4. "A study of Alpha-Beta Tracker With Some Modifications", Thamar University Journal for Natural and Applied Sciences, Vol. 1, 2009, Yemen.
5. "Developing of Advanced Monitoring System in Real Time Environment", Thamar University Journal for Natural and Applied Sciences, Vol. 1, 2009, Yemen.
6. "Efficient Implementation of CDP Algorithms for Optimal Evaluation of Array Expressions", Thamar University Journal for Natural and Applied Sciences, Vol. 7, 2013, Yemen.
7. "Quality of Service Routing Protocol for Mobile Ad-hoc Network", Far East Journal of Electronics and communications, Vol. 11 No. 2, 2013, India.
8. "A Web-Baed Graphical Simulation Tool of Electrocardiograph signal for Healthcare Students Learning", Egyptian Journal of Applied sciences, Vol. 29 No, 6, 2014. Egypt.
9. "A Comparison between PID and Fuzzy Logic Controller for Stablizing the Water Tank Level Control", Egyptian Journal of Applied sciences, Vol. 29 (12B), 2014. Egypt.
10. "An Improved Flower Pollination Algorithm for Solving Integer Programming Problems", Applied Mathematics & Information Sciences Letters An International Journal, Vol. No. 1, 39-45, 2015.
11. " Improved Firefly Algorithm for Unconstrained Optimization Problems", International Journal of Computer Applications Technology and Research (IJCATR), Vol. 4– Issue 1, 77 - 81, 2015 12.
- "A Chaotic Bat Algorithm for Solving Definite Integral", International Journal of Computers & Technology Vol. 14 no 4, 5592-5598, 2015.
13. " A comparative Study of Heavyweight and Lightweight Methodologies of Software Development", The 2nd Conference of IT and Networks, Alandalus University, 2017, Yemen
14. " Enhancing Location Privacy in LTE by the Use of Pseudonyms", The 2nd Conference of IT and Networks, Alandalus University, 2017, Yemen
15. " A Performance Evaluation of Storage Area Network (SAN)", The 2nd Conference of IT and Networks, Alandalus University,

2017, Yemen

16. "Analysis of Accident Times for Highway Locations Using KMeans Clustering and Decision Rules Extracted from Decision Trees", International Journal of Computer Applications Technology and Research (IJCATR), Vol. 7– Issue 01, 001 - 011, 2018
17. "A Hybrid Approach of Association Rules and Hidden Markov Model to Improve Efficiency Medical Text Classification", International Journal of Computer Applications Technology and Research (IJCATR), Vol. 7– Issue 02, 45 - 52, 2018
18. "Path Mapping Approach for Network Function virtualization Resource Allocation with Network Function Decomposition Support", *Symmetry* (ISSN 2073-8994; CODEN: SYMMAM) , August 2019
19. "Performance Evaluation of Storage Area Network (SAN) with internet Small Computer System Interface (iSCSI) for Local System PC", Algerian Journal of Signals and Systems (AJSS), (ISSN: 2543-3792-EISSN:2676-1548), Vol. 5, Issue 3, September 2020
20. "An Effective Algorithm for Mining Interesting Maximal Association Rules", The First International Conference on Modern Trends of Information Technology and Communication Industries, Al-Razi University and IEEE-Yemen Subsection, 2021
21. "Requirements for Creating Institutional Digital Repositories for Free Access in Yemen Universities", Sana'a University Journal of Human Sciences, Volume No. 1, 2022
22. "A Future Vision for The Management of Scientific Research in Yemeni Universities in The Light of Institutional Digital Repositories for Free Access", AJASHSS, 2023
23. "Automatic Analysis of MRI Images for Early Prediction of Alzheimer's Disease Stages Based on Hybrid Features of CNN and Handcrafted Features", *Diagnostics* 2023, 13, 1654
24. "Hybrid Techniques of X-ray Analysis to Predict Knee Osteoarthritis Grades Based on Fusion Features of CNN and Handcrafted ", *Diagnostics* 2023, 1609

○ **Curriculum Specifications**

- Guide of preparing graduation project for Yemeni Universities Students (Head of Team)
- Curriculum Document of English Language for Industrial Technical Institutes- Electronic Division. (Team Member)
- Curriculum Document of English Language for Industrial Technical Institutes- Computer Science Division. (Team Member)
- Curriculum Document of English Language for Industrial Technical Institutes- Telecommunication Division. (Team Member)
- Curriculum Document of English Language for Industrial Technical Institutes- Mechanic Division. (Team Member)
- English Language for Industrial Technical Institutes Electronic Division Book. (Head of authors)
- Curriculum Document of Computer Sciences Dept., Thamar University (Team Member)
- Curriculum Document of Information Technologies Dept., Thamar University (Team Member)
- Curriculum Document of Master Program in Information Technologies, Sheba University (Team Member)

- Curriculum Document of Bachelor Program in Information Technologies, Emirates International University (Team Leader)
- Curriculum Document of Master Program in Information Technologies, Emirates International University (Team Leader)

Supervision

- **Graduation Projects**
 - More than 40 projects
- **Postgraduate High Diploma Projects**
 1. A web-based Graphical Simulation of ECG
 2. A comparison between PID and Fuzzy Logic control for stabilizing the water Tank level
 3. Survey of the synergism of artificial Neural network and Genetic algorithms.
- **Master and PhD Thesis**
 1. A hybrid Approach of Hidden Markov Model and Association Rule to Improve the Efficiency of Medical Text Classification, Huda AlQuzani.
 2. Utilization of Attribute Based Access Control in Protecting Online Information Sharing, Ali Maqheesh.
 3. Clustering Based Routing Ad Hoc Wireless Sensor Network for LEACH Protocol Improvement by Fuzzy Logic, Khalid Abdulrazzaq
 4. A performance Evaluation of Storage Area Network (SAN) with (ISCSI), Muthana Al-Aswad.
 5. The effect of Using of Computer Aided Auditing Software on the Improvement of Performance of Observation Operations, Ashraf Al-Qudami.
 6. Analysis of Accident Times for Highway Locations Using k-means Clustering and Decision Rules Extracted from Decision Trees, Ali Al-Jofey.
 7. Risk Prioritization in Software Development Projects Based on Decision Making Techniques, Sarah AbdulAziz.
 8. Improvement of Organizations Web Services Performance Based on Modified Web Services Model, Adeeb Al-Qershi.
 9. An Efficient Approach for Mobile Core Services Placement on Network Function Virtualization, Basheer Ameen.
 10. The Role of Human Resources Information Systems (HRIS) in Enhancement of Administrative Performance in PTC-Yemen, Abduljabbar Hebah
 11. A Proposed Model for The Establishment of a National Technology Incubator in Republic of Yemen, Hajer Al-Khawlani
 12. An intelligent Approach for Auto Traffic Sign Recognition Using Convolutional Neural Networks, Sameer Yaseen
 13. Information Security Policies and Their Impact on The Effectiveness of Management Information Systems in Public Telecommunications Corporation, Saleem Al-Basha
 14. Information Security Risk Management and Its Impact on Telecommunication in The Public Telecommunications Corporation, Abdulkareem Al-Swidy
 15. An Effective Algorithm for Mining Interesting Maximal Association Rules, Fatima Al-Kebsi

16. The Role of Management Information Systems in Crisis Management in Public Corporation for Wired and Wireless Telecommunication, Ali Al-Handarish
17. Managing Scientific Research outputs in Yemeni Universities in Accordance with Institutional Digital Repositories for Free Access, Afrah Al-Ammari
18. The Quality of Fourth-Generation Services and Its Role in Achieving Internal Customer Loyalty, An applied study on Sabafon Mobile Phone Company, Aref Hammoud Sultan Ali
19. A Proposed Model for Lecturer's Appraisal Performance in Yemeni Private Universities, Najeeb Mahdi Al-Bazili
20. Factors Affecting the Adoption of Blockchain Technology for The Higher Education in Yemen, Eman Ahmed Al-Areeqi
21. An Approach for Facial Emotion Detection Based on Deep Learning, Muhannad Mohammed Al-Mashriqi

Workshops and Conferences	Discussion of Third Report of National Human Development – Knowledge: Information, Education and culture (Head of Session)	Ministry of Planning and Thamar University	2005
	Discussion and Enriching the Cultural, Basic and Assistant Subjects for Industrial and Technical Institutes Workshop	Industrial and Technical Institutes Ministry and Educational Reserchs and Development Center	2005
	Microsoft Learning Gateway Workshop	Microsoft Corp. – Sana’a, Yemen	2005
	Workshop: Information and Communication Technology and the prospects for their use in higher education institutions	Higher Education Development Project and the Project of Information and Communication Technology	2005
	Request for Proposal Workshop, Information and Communication Technology Project	Higher Eduaction Project and Delft University Netherland, Sana’a	2005
	2 nd VLSI Embded Systems and DSP Application Conference VEDAS-20006	Salem, Tamilnadu, India	2006
	Preparing Educational Lexical Dictionaries for General Education Schools in Aribic Gulf Countries	Educational Reserchs and Development Center	2006
	Workshop: Review policies and master plan of information and communication technologies in Yemeni universities and the ministry Learning Technologies and Mathematics Middle East Conference	Ministry of Higher Education	2007
	Improving Academic Staff abilities to develop their Education Skills	Sultan Qaboos Unevirsiy, Oman Academic Development Department, Thamar University	2007
	How to Conduct & Publish Research?	Academic Development Department, Thamar University	2007
	Academic Assessment and Accreditaition as a Tool to continuous improvement and guarantee good quality	Academic Development Department, Thamar University	2007
	Academic Management & Administrating Scientific Research	Academic Development Department, Thamar University	2007
	Institutional Management& Financial Resources Administration	Academic Development Department, Thamar University	2007
	Workshop: Launch of the Center for Information Technology in Higher Education	NPT program, the Delft University and Yemen Ministry of Higher Education	2007
	ITIL v5 Foundation	Global knowledge	2007

Training directors of information technology centers at the universities of Yemen	NPT program and the Delft University	2007
Teaching & Research thread, Training of Trainers in Yemen	Oregon State University	2008
Information Technology thread, Training of Trainers in Yemen	Oregon State University	2008
International Training Programme for ICT Directors of YBUs	Life Academy, Sweden	2008
Training program for Yemeni Universities' Preseints and Deans	The World Bank and the Higher Education Development Project	2008
Recent trends in the planning and management of education institutions, the World	The World Bank and the Higher Education Development Project	2008
Strategic Planning	The World Bank and the Higher Education Development Project	2008
Higher Education Funding	The World Bank and the Higher Education Development Project	2008
Financial Management in Higher Education Institutions	The World Bank and the Higher Education Development Project	2008
Managing the activities of the self-financing	The World Bank and the Higher Education Development Project	2008
Development of higher education	Dutch Maastricht School of Management	2008
Management meetings and preparing minutes and reports	Department of Academic Development, Thamar University	2008
A world class program, Self-Evaluation and Program Specification	British Counsel, Sana'a	2009
Methodologies and training strategies	British Counsel, Sana'a	2009
Collaborative planning	Delft University	2009
Participatory planning	Yemen – Parteners Foundation	2009
Project design and management	Yemen – Parteners Foundation	2009
Organizing community meetings to follow-up and evaluation of projects	Yemen – Parteners Foundation	2009
Training of Trainers	Yemen – Parteners Foundation	2009
Workshop of training the teams of developing the universities programs of Higher Education Improvment Project	World Bank	2009
System of accreditation and quality: concepts and experiments	Center for Quality Assurance and Accreditation, Thamar University	2009
Total Quality Management	Center for Quality Assurance and Accreditation, Thamar University	2009

Strategic planning for universities	Department of Academic Development, Tamar University	2009
Strategic planning and leadership	Delft University	2009
English Language for postgraduate professors	Delft University and Postgraduate Centers, Taiz University	2010
The introductory workshop for the Program of Biochemistry Technology	Faculty of Applied Sciences, Tamar University	2010
Standards of quality in medical education	Faculty of Medicine, Tamar University	2011
The development of core competencies for the preparation of educational outcomes	Tamar University and Education Quality Improvement Project	2012
Review and develop plans vocabulary curriculum for a college program of Computer Science and Information	Faculty of Computer Sciences and Information Systems, Tamar University	2012
Strategies to facilitate dialogue	Secretariat for National Dialogue	2013
Online Services	Center for Information Technology in the Ministry of Higher Education	2013
Ensure the quality of academic programs in the Colleges of Computing and Information Technology in the Arab World	Association of Colleges of Computing at the Association of Arab Universities	2013
Establishing and develop plans vocabulary curriculum for Information Technology Department	Sana'a University	2014
Develop plans vocabulary curriculum for Information Technology Department	Modern Sciences University	2016
Develop plans vocabulary curriculum for Information Systems Department	Modern Sciences University	2016
Develop plans vocabulary curriculum for Networking Technology Engineering Department	Modern Sciences University	2016
Determining Priorities of Scientific Researches of Information Technology and Networks in Yemen	Ministry of Higher Education and Scientific research + Alandalus university for sciences and Technology	2016
The First Scientific conference of Information Technology and Networks	Alandalus university for sciences and Technology	2016
Establishing and develop plans vocabulary curriculum for Master Program in Information Technology	Sheba University	2017
Establishing and develop plans vocabulary curriculum for Master Program in Information Systems	Sana'a University	2017
The Skills and Strategies for Modern Teaching	University of Modern Sciences	

The Second Scientific conference of Information Technology and Networks	Alandalus university for sciences and Technology	2017
Developing National Academic Refrence Standards (NARS) for Computing and Information	Sheba University and Minsitry of Higher Education-Yemen	2018
Preparing and Lunchnig Startegic Plan 2025 of Emirates International University-Sana'a	Emirates International University-Sana'a	2019
Preparing and Agreement of the Program Documents for (Computer Sciences – Information Technology – Software Engineering – Computer Information Systems)	Faculty of Computers and Informatics – Thamar University	2019
Development of Strategic Plan 2025 of Faculty of Engineering and Information Technology	Emirates International University-Sana'a	2019
Development of Strategic Plans 2025 of the Departments and Approving of the Programs Documents for (Mechatronics Engineering – Oil and Gas Engineering – Chemical Engineering – Information Security)	Emirates International University-Sana'a	2019
Development of Strategic Plans 2025 of the Postgraduate Studies Deanship Approving of the Programs Documents for the Faculty of Computer Scince and Information Technology	Emirates International University-Sana'a AL-Razi University-Sana'a	2020
The First Confrence of E-Learning	Ministry of Higher Education and Scientific Research	2020
The First International Conference on Emerging Smart Technologies and Applications - eSmartA	Lebanese International University LIU, Sana'a and IEEE-Yemen Subsection	2021
International Conference on ITSS-IoE 2021 (Reviewer)	University of Sciences and Technology, Sana'a and IEEE-Yemen Subsection	2021
The Second Confrence of E-Learning	Ministry of Higher Education and Scientific Research	2021
The First International Conference on Modern Trends of Information Technology and Communication Industries (General Chair)	Al-Razi University and IEEE-Yemen Subsection	2021