

CURRICULUM VITAE



PERSONAL INFORMATION

Name: Falah E. Alsaqre

Nationality: Iraqi

Date and Place of Birth: 1st of Feb. 1967, Iraq.

Languages: Arabic, English, and Chinese

Address: Iraq, Baghdad, Al Hikma University College, Dep. of Computer Engineering Techniques.

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IDENTIFIERS

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Scopus Author ID: 6506491041

Google scholar: <https://scholar.google.co.uk/citations?user=Pcjd6xsAAAAJ&hl=en>

EDUCATION

2004: Ph.D. (Eng.) in Signals and Information Processing, Institute of Information Science, School of Computer and Information Technology, Beijing Jiaotong University, Beijing, China.

1995: MSc. in Control and Instrumentation Engineering, Department of Control and Systems Engineering, University of Technology, Baghdad, Iraq.

1988: BSc. in Control and Systems Engineering, Department of Control and Systems Engineering, University of Technology, Baghdad, Iraq.

TEACHING EXPERIENCE

2019–Present: Instructor, Dep. of Computer Engineering Techniques, Al Hikma University College, Baghdad, Iraq.

2015–2019: Independent Academician, served as a member of editorial board in some journals and a member of program committee in different international conferences. Also, conducted research projects jointly with Gulf University, Bahrain.

2013–2014: Assistant Professor, Faculty of Business, Sohar University, Sohar, Oman. Taught the following course:

- *Management Information Systems (Undergraduate)*

2009–2013: Assistant Professor, College of Computer Engineering and Sciences, Gulf University, Bahrain. Taught the following courses:

- *Image Processing and Pattern Recognition (Postgraduate)*
- *Computer Vision (Postgraduate)*
- *Contemporary Computer Design (Postgraduate)*
- *Coding and Compressing (Undergraduate)*

- *Structure Programming (Undergraduate)*
- *Multimedia Communications (Undergraduate)*
- *Fiber Optic Communications (Undergraduate)*
- *Electronic Communications (Undergraduate)*
- *Fuzzy Logic Systems (Postgraduate)*
- *Mathematics for Computing (Undergraduate)*
- *Telecommunication Systems Design (Undergraduate)*
- *Communication Principles (Undergraduate)*
- *Digital Signal Processing (Postgraduate & Undergraduate)*
- *Communication Systems (Undergraduate)*
- *Control Systems (Undergraduate)*
- *Management Information Systems (Postgraduate & Undergraduate)*
- *Introduction to Information Systems (Undergraduate)*
- *Elements of ICT (Undergraduate)*
- *Information Systems Development and Management (Undergraduate)*

2008–2009: Senior lecturer, School of Computer and Communication Engineering, University Malaysia Perlis, Perlis, Malaysia. Taught the following undergraduate courses:

- *Computer programming (Undergraduate)*
- *Principles of Computer Architecture (Undergraduate)*

1996–1999: Invited lecturer at the University of Technology and Almansour Technical Institute, Baghdad, Iraq. Taught the following courses:

- *Digital Control Systems*
- *Microcomputers*
- *Digital Systems Design*

SUPERVISION AND EXAMINATION ACTIVITIES

I have chaired and member in many MSc examination committees and served as external examiner as well.

PhD Supervision

Local supervisor for a PhD student at De Montfort University, United Kingdom. Thesis entitled *Automated Image Based Plant Recognition*.

Master Supervision

Supervised the following master theses.

- *Multiple Faces Recognition System*
- *An Approach to Automated Fingerprint Identification System*
- *IT Disaster Recovery and Business Continuity VMware Based for Kuwait Oil Company*
- *Face Recognition Via Diagonal Linear Discriminant Analysis and Wavelet Transform*
- *Moving Objects Tracking for Traffic Surveillance System*
- *Automated Signature Recognition System*
- *Symmetric Image Recognition using Linear Discriminant Analysis*

Undergraduate Supervision

I have supervised a good number of final year projects.

PROFESSIONAL EXPERIENCE

2019–Present: Instructor, Dep. of Computer Engineering Techniques, Al Hikma University College, Baghdad, Iraq.

2014 Feb.–2014 Sep.: Assistant Professor, Faculty of Business, Sohar University, Oman.

2009–2013: Assistant Professor, College of Computer Engineering and Sciences, Gulf University, Bahrain.

2008–2009: Senior lecturer, School of Computer and Communication Engineering, University Malaysia Perlis (UniMap), Malaysia.

2004–2007: Postdoctoral fellow, School of Computer and Information Technology, Beijing Jiaotong University, Beijing, China.

ADMINISTRATIVE EXPERIENCE

2012–2013: Acting Dean, College of Computer Engineering and Sciences, Gulf University.

2011–2012: Associate Dean, College of Computer Engineering and Sciences, Gulf University.

2010–2013: Chair of the quality assurance unit, Gulf University.

2008–2014: Chair and member in many academic, community services and quality assurance committees.

EDITORIAL BOARD

- International Journal of Electrical, Electronic and Communication Sciences.
- Machine Learning Research.
- Journal of Artificial Intelligence.
- Journal of Software Engineering.
- Research Journal of Information Technology.
- International Journal of Engineering and Sciences.
- Asian Journal of Information Management.
- Trends in Bioinformatics.

PEER REVIEW

- Gulf University Journal
- International Journal of Engineering and Sciences
- International Conference on Signal Processing ICSP'04
- International Conference on Signal Processing ICSP'06
- International Conference on Electronic Design ICED2008
- International Conference on Digital Information Processing and Communications ICDIPC2011.
- 2017 9th IEEE-GCC Conference and Exhibition (GCCCE).

- Smart Cities Symposium 2018 (SCS'18).
- International Journal of Computing and Digital Systems.
- 1st International Conference on Artificial Intelligence & Modern Assistive Technology (ICAIMAT 2020).
- Bulletin of Electrical Engineering and Informatics (BEEI 2020).
- International Conference on Data Analytics for Business and Industry (Data 20).
- International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2020).
- The International Journal of Artificial Intelligence (IJAI).
- Indonesian Journal of Electrical Engineering and Computer Science.
- International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2021).

PROGRAM COMMITTEE

- Co-Chairman of the technical program committee of the International Conference on Electronic Design ICED2008, Penang, Malaysia.
- Session chair of Computer Vision and Virtual Reality, International Conference on Signal Processing ICSP'04, Beijing, China.
- Session chair of the Multimedia Signal Processing, International Conference on Communications Technology ICCT2003, Beijing, China.
- International program committee, International Conference on Computing, Networking and Digital Technologies ICCNDT 2012.
- International committee, ICIET Dubai 2014: XII International Conference on Information Engineering and Technology.
- International committee, 16th International Conference on Pattern Recognition Methods and Applications ICPRMA 2014, Paris, France.
- International committee, 17th International Conference on Pattern Recognition and Computer Vision ICPRCV 2015, London, UK.
- International committee, 17th International Conference on Pattern Recognition and Machine Learning ICPRML 2015, Bangkok, Thailand.
- International committee, 18th International Conference on Information Processing ICIP 2016, London, UK.
- International committee, 19th International Conference on Electronic Cybernetics Engineering and Technology ICECET 2017, Paris, France.
- International committee member of the 20th International Conference on Multimedia Technologies and Communications ICMTTC 2018, London, UK.
- Technical Program Committee, International Congress: Future Vision (ICFV'19), UK.
- International Scientific Committee, International Conference on Aerospace Instrumentation and Analyzing Random Processes ICAIARP'19, Japan.
- Future Vision International Congress (ICFV'19), United Kingdom.
- International Conference on Infocomm Technology and Multimedia (ICITM 2021).

PROFESSIONAL TRAINING

- Data Communications, RACAL Electronics plc, Reading, United Kingdom.

- Academic Staff Developments in Educational Technologies, Gulf University, Bahrain.
- E-learning, Gulf University, Bahrain.
- Quality Assurance, Higher Education Reviews Unit, Bahrain.
- Using Turnitin, Gulf University, Bahrain.
- Real-Time Computer Systems with Applications (IEEE).
- Evolution of Intelligent and Autonomous Vehicles.
- Paradigm Shift in Higher Education under Covid-19 Pandemic: Experience and Challenges, Gulf University, Bahrain.
- Effective Remote Instruction: Reimagining the Engineering Student Experience (IEEE).

PROFESSIONAL AFFILIATIONS

- Institute of Electrical and Electronics Engineers (IEEE), Member, # 94825263
- IEEE Signal Processing Society.
- International Association of Computer Science and Information Technology (IACSIT), Senior Member, # 80341843
- International Association of Engineers (IAENG), Member, # 121484
- The Society of Digital Information and Wireless Communications (SDIWC)
- World Academy of Science, Engineering and Technology (WASET)

RESEARCH INTERESTS

My research interests include information and signals processing, computer vision, pattern recognition, machine learning, and image processing. Particularly, my conducted researches in these areas focused on developing algorithms and methodologies based on multidimensional data modeling, multivariate data analysis and statistical learning. I am also interested in digital control systems.

PUBLISHED PAPERS

1. **Falah Alsaqre**, “Human Face Recognition Using Class-wise Two-dimensional Principal Component Analysis”, *International Journal of Computing and Digital Systems*, Vol. 9, No. 2, PP 335-343, 2020.
2. **Falah Alsaqre** and Osama Almathkour, “Moving Objects Classification via Category-Wise Two-Dimensional Principal Component Analysis”, *Applied Computing and Informatics*, 2019. (Elsevier)
3. **Falah E. Alsaqre** and Yuan Baozong, “An Approach to Discrete Variable Structure Control System”, *Chinese Journal of Electronics*, Vol. 12, No. 3, pp.362-367, July 2003.
4. **Falah E. Alsaqre** and Yuan Baozong, “Moving Object Segmentation for Video Surveillance and Conferencing Applications”, in *Proc. of ICCT2003 International Conference on Communication Technology*, pp.1856-1859, China, 2003. (IEEE Explorer)
5. **Falah E. Alsaqre** and Yuan Baozong, “Moving Object Segmentation from Video Sequences: An Edge Approach”, in *Proc. of EC-VIP-MC2003, 4th EURASIP Conference on Video/Image Processing and Multimedia Communications*, pp.193-199, Croatia, 2003. (IEEE Explorer)

6. **Falah E. Alsaqre** and Yuan Baozong, "Automatic moving object segmentation from video sequences for indoor and outdoor applications," *The Journal of China Universities of Posts and Telecommunications*, vol. 10, no. 4, pp. 76-81, 2004.
7. **Falah E. Alsaqre** and Yuan Baozong, "Moving shadows detection in video sequences," in *Proc. of ICSP04 7th Int. Conf. on Signal Processing*, pp. 1306-1309, China, 2004. (IEEE Explorer)
8. **Falah E. Alsaqre** and Yuan Baozong, "Multiple moving objects tracking for video surveillance systems," in *Proc. of ICSP04 7th Int. Conf. on Signal Processing*, pp. 1301-1305, China, 2004. (IEEE Explorer)
9. **Falah E. Alsaqre**, Ruan Qiqiu, Yuan Baozong, and Tan Zhenhui, "Face recognition using diagonal 2D linear discriminant analysis," in *Proc. of ICSP06 Int. Conf. On Signal Processing*, pp. 1729-1732, China, 2006. (IEEE Explorer)
10. Venus Alenzi, Mohanad Alfiras, and **Falah E. Alsaqre**, "Face Recognition Algorithm Using Two-Dimensional Principal Component Analysis Based on Discrete Wavelet Transform", in *Proc. International Conference on Digital Information Processing and Communications (ICDIPC2011)*, LNCS, Springer, Czech Republic, 2011. (Springer)
11. Mohammad Al-shammari and **Falah E. Alsaqre**, "IT Disaster Recovery and Business Continuity for Kuwait Oil Company (KOC)", ICITSM 2012, April 2012.
12. **Falah E. Alsaqre** and Saja Al-Rwai, "Symmetry Based 2D Singular Value Decomposition for Face Recognition", in *Proc. International Conference on Digital Information Processing and Communications (ICDIPC2011)*, LNCS, Springer, Czech Republic, 2011. (Springer)
13. **Falah E. Alsaqre** and Muhanad Alffaras "Face Recognition Using Diagonal Two-Dimensional Linear Discriminant Analysis and Wavelet Transform", in *Proc. of the 9th IEEE-GCC Conference and Exhibition*, Bahrain, pp. 19-24, 2017. (IEEE Explorer)

KNOWLEDGE SHARING

1. Falah Alsaqre (2019). Two-Dimensional PCA for Face Recognition, <https://www.mathworks.com/matlabcentral/fileexchange/69377-two-dimensional-pca-for-face-recognition>, MATLAB Central File Exchange.
2. Falah Alsaqre (2018). Fast Implementation of PCA-Based Face Recognition, <https://www.mathworks.com/matlabcentral/fileexchange/69226-fast-implementation-of-pca-based-face-recognition>, MATLAB Central File Exchange.