

## Curriculum Vitae

**Assist. Prof. Dr. Kadhim Abood Essa Al-Majdi**

**Mustansiriyah University**

**College of Engineering**

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### INTRODUCTORY SUMMARY:

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Assist. Prof. Dr. Kadhim Abood Essa Al-Majdi, vice-president for scientific affairs, teacher at the Electrical Department/ College of Engineering/ Mustansiriyah University since 2009, doing practical and theoretical teaching, having a scientific expertise in field of electromagnetic energy, Head of Computer and Software Engineering Department, from 2011-2014, vice-dean of College of Engineering for Scientific Research and Higher Studies from 2014-31/1/2018.

### CERTIFICATES:

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- Postdoctoral degree/ South China University for Technology (2006-2008)/ College of Electronic Engineering and Information Technology. The research is entitled: "Research on the Numerical Methods for Solving Electromagnetic Scattering".
- Ph. Degree/ South China University for Technology (2002-2006)/College of Electronic Engineering and Information Technology. Ph. D. thesis title: "Research on Electromagnetic Scattering and Radiation Characteristics of Arbitrary Wire Structure".
- Master Degree/ Nahrain University (1998-2001). M. Sc. thesis: "Phase Transformation of TiNi Shape Memory Alloy Thin Films".

### ACADEMIC AWARDS AND LETTERS OF APPRECIATION:

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- A letter of appreciation (1) / from Minister of Higher Education and Scientific Research.
- A letter of appreciation (1)/ from Deputy Minister of Higher Education and Scientific Research for Scientific Affairs.
- A letter of appreciation (29)/ from President of Mustansiriyah University .
- A letter of appreciation (1)/ from President of University of Technology.
- A letter of appreciation (1)/ from President of Iraqi University.
- A letter of appreciation (1)/from President of Baghdad University.
- A letter of appreciation (3)/ from Minister of Youth and Sport.
- A letter of appreciation (1)/from President of Baghdad Province Council.
- A letter of appreciation (1)/ from Baghdad Governor.
- A letter of appreciation (1)/ from President of Defense University for Military Studies.
- A letter of appreciation (42)/ from Dean of College of Engineering/ Mustansiriyah University.
- A letter of appreciation (1)/ from Dean of Al-esraa University College.
- First Award/ Minister of Youth and Sport at the 7<sup>th</sup> Sovereignty Festival 2013.
- Best Student Award/ South China University for Technology, Awarded a Postdoctoral Degree Scholarship 2006.
- Best Student Award/ South China University for Technology 2005 & 2006.

## **ACADEMIC EXPERIENCE:**

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- Vice-President for Scientific Affairs/ Mustansiriyah University/ from (1/2/2018) onward.
- Vice-Dean for Scientific Affairs and Higher Studies/ College of Engineering/ 2014-2018.
- Head of Computer and Software Engineering Department/ College of Engineering/ Mustansiriyah University/ 2011-2014.
- Faculty Member at Electrical Engineering Department/ College of Engineering/ Mustansiriyah University/ 2009-2011.
- Member of the Supreme Commission Supervising Evening Studies/ Mustansiriyah University/ 2017-2018.
- Lecturer at South China University for Technology/ Electronic and Communication Engineering/ China/2006-2008.
- Lecturer at Hunan University/ China/2001-2002.
- Lecturer at Nahrain University/ 1999-2001.
- Researcher at Fiber Optics Laboratory/ Hunan University/ China.
- Researcher at Advanced Communication Laboratory/ South China University for Technology.
- Researcher at Advanced Fiber Optics Laboratory/ South China University.
- Scientific Referee for many researches published in the field of electrical and computer engineering.

## **COMMITTEE MEMBERSHIP:**

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- Head of Central Scientific Committee for Scientific Products Evaluation/2018/University Order no. (614) dated (13/2/2018).
- Head of Creators Evaluation Committee in ministries and other bodies/2018/University Order no. (626) dated (14/2/2018).
- Head of Psychological and Educational Guidance at University Presidency/2018/University Order no. (4203) dated (11/12/2018).
- Head of Arbitration Committee to review the files of applicants to Mustansiriyah Award for Sciences and Arts/2018/University Order no. (795) dated 28/2/2018).
- Head of committee for setting special procedures and adopted criteria to identify the students in need/2018/University Order no. (774) dated 28/2/2018).
- Head of Organizing Committee for the University Foundation Anniversary/ 2018/University Order no. (939) dated (12/3/2018).
- Head of Continuous Education Center Council at the University/2018/University Order no. (954) dated (12/3/2018).
- Head of Credit-hour System Committee/2018/University Order no. (1112) dated 28/3/2018).
- Head of committee to review the postgraduate studies outputs in some similar specialties in some of the University Colleges/2018/University Order no. (1230) dated (4/4/2018).
- Head of committee to review university emblems and making designs/2018/University Order no. (1864) dated (4/6/2018).
- Head of committee to supervise the process of implementing English language and computer courses for postgraduate studies applicants/2018/University Order no. (1899) dated (6/6/2018).
- Head of committee to follow up the university commitments to achieve the fourth goal of sustainable development goals (2030)/2018/University Order no. (2094) dated (26/6/2018).

- Head of committee to scrutinize the postgraduate studies applicants' files (2018/2019) and issuing relating university orders/ University Order no. (2295) dated (11/7/2018).
- Head of committee to make the Graduation Ceremony Guidebook (2017/2018)/ University Order no. (2487) dated (26/7/2018).
- Head of committee to prepare the university achievements guidebook (2015-2018)/2018/University Order no.(2535) dated (31/7/2018).
- Head of committee to make Mustansiriyah University Guidebook/ 2018/University Order no. (2536) dated (31/7/2018).
- Head of Mustansiriyah University Housing Committee/2018/University Order no. (2881) dated (2/9/2018).
- Head of committee to make interviews with students applying for best students studies (2018/2019)/ University Order no. (3058) dated (18/9/2018).
- Head of Central Committee to implement admission instructions for Evening Studies/2018/2019/ University Order no. (307) dated (19/9/2018).
- Head of committee of reviewing the postgraduate program of teaching methodology at the College of Basic Education/2018/University Order no. (3131) dated (25/9/2018).
- Head of (CBRN) Committee to awareness rising about preventing the proliferation of mass destruction weapons and the materials and equipments of dual use/2018/University Order no. (3139) dated (25/9/2018).
- Head of Scientific Committee at Computer and Software Engineering Department/(2011-2014).
- Head of Examining Committee at Computer and Software Engineering Department (2011-2014).
- Head of committee to set systematic procedures for volunteer work of students/ Administrative Order no. (1074) dated (9/2/2017).
- Head and member at many scientific, examining, investigation and audit committees at College of Engineering.
- Head of many Examining Committees of Postgraduate Students.
- Head of committee to supervise the workshop of College of Engineering undergraduate students/ Administrative Order no. (2013) dated (9/3/2016).
- Head of many committees to supervise the graduation ceremonies.
- Head of Central Committee to set the regulations of examination committees (2016-2018).
- Head of Students Discipline Committee at College of Engineering (2014-2018).
- Head of committee to design a guidebook about students' affairs committees/ Administrative Order no. (691) dated (20/8/2015).
- Head of English Language Examination for Postgraduate Studies Committee/ administrative order no. (6523) dated (29/7/2015).
- Head of Computer Exam for Postgraduate Studies Students Committee/ (2015-2016)/Administrative Order no. (6522) dated (29/7/2015).
- Head of committee to identify the College of Engineering lecturers' specialties.
- Head of Application International Classification Criteria Committee/ Administrative Order no. (670) dated (25/1/2015).
- Head of committee to study the College of Engineering regulatory structure (11/1/2015).
- Head of committee to manage and develop the College of Engineering website/Administrative Order no. (5323) dated (28/8/2014).
- Head of many academic counseling committees.
- Head of committee to analyze tenders of Electrical and Computer Engineering devices/ university order no. (31212) dated (8/2/2011).

- Head of committee to study the possibility of developing a research specialist center to study and follow up people with autism disorder/2018/University Order no. (3838) dated (14/11/2018).
- Head of sub-committee to identify the needs of postgraduate studies students in Iraq (2019-2020)/ University Order no. (3516) dated (21/10/2018).
- Head of committee to review the tuition fees/ 2018/University Order no. (4260) dated (16/12/2018).
- Head of sub-committee of postgraduate study leaves (2019-2020)/ University Order no. (267) dated (24/1/2019).
- Head of Permanent Disciplinary Committee for dormitories/ University Order No. (289) dated (28/1/2019).
- Member of Quality Assurance Council/ 2018/University Order no. (985) dated (14/3/2018).
- Member of the Central Examination Committee to supervise and follow up the admission exam (2017-2018)/University Order no. (1612) dated (14/5/2018).
- Member of National Central Classification Committee/University Order no. (2986) dated (17/8/2017).
- Member of committee to evaluate creative works and submit them to the Ministry of Higher Education and Scientific Research/ University Order no. (1259) dated (2/4/2017).
- Member of the Central Organizing Committee of Graduation Ceremony (2017/2018)/ University Order no. (1931) dated (11/6/2018).
- Member of committee to prepare the opinion body meeting to be held at Mustansiriyah university/2018/University Order no. (2826) dated (28/8/2018).
- Member of the ministerial committee to set the procedures of determining the previous scientific specialty for students qualified to commence the postgraduate studies in humanities/ Ministerial Order no. (4555) dated (24/9/2018).
- Member of committee of (Crisis Cell) to meet demonstrators when take place/2018/University Order no. (2953) dated (5/9/2018).
- Member of the supreme committee supervising the Evening studies at Mustansiriyah University (2018/2019)/ University Order no. (4675) dated (1/10/2018).
- Member of committee to set an integrated strategy for Mustansiriyah University Departments (31/1/2016).
- Member of Iraq Postgraduate Studies Promotion Committee (4/10/2015).
- Member of committee to identify goals and strategies/College of Engineering/ Mustansiriyah University/ Administrative Order no. (7822) dated (23/9/2018).
- Member of Central Examination Committee at College of Engineering/2014-2018.
- Member of committee to make self-evaluation report for laboratories (14/6/2016).
- Member of committee to identify the rare specialties needed by the university (2015-2018)/University Order no. (3227) dated (27/8/2015).
- Member of central committee to supervise summer training courses for all college of engineering departments (2014/2018).
- Member of central committee for the postgraduate studies admission exam at College of Engineering (2014-2018).
- Member of Comprehensive Evaluation Committee for university performance (2012-2013-2014)/ University Order no. (2125) dated (27/5/2018).
- Member of Central Committee of Mustansiriyah University Scholarships Conference 2018/University Order no. (3609) dated (25/10/2018).
- Member of ministerial committee to find solutions to Ibn Sina Website for Medical and Pharmaceutical Sciences/ 2018/ Ministerial Order no. (25/7/5643) dated (28/11/2018).

- Member of Lecturers Nomination Committee for faculty members developing program abroad/ University Order no. (3767) dated (13/10/2014).
- Member of many organizing committees for symposiums and workshops to be held at College of Engineering.
- Supervising scholarship students from (2014) onward.
- Many other scientific and investigative committees at Mustansiriyah University and College of Engineering.
- Supervising Committee of rehabilitation of laboratories of Computer and Software Engineering Department since 2011.
- Supervising the Website of Mustansiriyah University since 2018 till now/ University Order no. (3763) dated (7/11/2018).

### COURSES TOUGHT:

UNDERGRADUATE	POSTGRADUATE
1- Electromagnetic field theory 2- Numerical Computation	1- Information Theory

### KNOWLEDGE OF LANGUAGES:

- Arabic language.
- English language.
- Chinese language.

### PUBLISHED WORKS:

- 1- Hu Bin-Jie and Kadhum AL-Majdi “**Electromagnetic Scattering of Plane Wave by conducting Helix**” Proceedings of 8~(th) Sino-Japanese Joint Meeting on Optical Fiber Science and Electromagnetic Theory, 2004.
- 2- AL-Majdi Kadhum, Bin-Jie Hu and Jun-Xin Yin, “Scattering Analysis of Arbitrarily Shaped Conducting Thin Wire Structures”, in Proc. of 2005 Asia-Pacific Microwave Conference (APMC’2005), Suzhou, China, December 4-7, 2005, vol. 4 of 5, pp. 2758-2760.
- 3- Majdi Kadhum, Bin-Jie Hu and Jun-Xin Yin, “The Efficient Analysis of a Helix Antenna by using a Moment Method Technique” , Journal of Science Technology and Engineering 2005, 16(5):1140-1144.
- 4- Majdi Kadhum, Bin-Jie Hu and Jun-Xin Yin, “Analysis and Kernel Expression of Wire Antenna with Arbitrary Shape”, Journal of South China University of Technology, December 2005, 33(12):52-55.
- 5- Majdi Kadhum, Bin-Jie Hu and Jun-Xin Yin, “The Analysis of Electromagnetic Scattering from Arbitrarily Oriented Thin-wire” Journal of Science Technology and Engineering, March 2006, 6(6):756-759.
- 6- AL-Majdi Kadhum, Qi Ming, “Moment Method Solution in Time Domain for Arbitrarily Shaped Conducting Wire Structures”, in International Conference on Information and Control Technologies 2006, Shenzhen, China, December 7-8, 2006, pp. 187-192.

- 7- AL-Majdi Kadhum and Qi Ming “Constitutive Relations and Scattering Characteristics of General Bi-Isotropic Objects”, The Eighth International Conference on Electronic Measurement and Instruments 2007, Xi’an, P. R. China, Aug. 16, 2007, Vol. 4, pp.488 - 494.
- 8- AL-Majdi Kadhum and Qi Ming “Efficient Time Domain Analysis of Arbitrarily Shaped Conducting Wire Structures” Journal of Science & Technology Information, 2007, Vol. pp.18-21.
- 9- Al-Majdi Kadhum and Qi Ming “Characterization of Chiral Media and the Scattering of Bi-Isotropic” Journal of Henan Science, 2008, Vol. 26, pp534-539.
- 10- Al-Majdi Kadhum and Qi Ming “Scattering Characteristics Of Conducting Helix” in International Conference on microwave and millimeter wave technology, April 21-24,2008, Vol. 4, pp 1902-1905.
- 11- Al-Majdi Kadhum “Advance study in the generalized circular polarization and scattering from Bi-Isotropic objects”. Journal of Engineering and development, Sep. 2012, Vol. 16, No. 4. PP. 229-240
- 12- Raed Al-Moussawy and Al-Majdi Kadhum “Reed Solomon coding in orthogonal frequency division multiplexing (OFDM) communication Systems” ”. Journal of Engineering and development, Sep. 2012, Vol. 16, No. 3. PP. 162-174.
- 13- Muthana H. Hamd& Al-Majdi Kadhum. “Skin Cancer Prognosis Pigment Processing”. International Journal of Image processing, Malaysia, June 2013, Vol. 7, No. 3. PP.227-236.
- 14- WalaaKhalaf, Mohammed Ali and Al-Majdi Kadhum. “Edge detection using scaled conjugate gradient algorithm in back propagation neural network” Engineering & Technology Journal 2014, Vol. 32, No. 2 Part (A), PP. 385-395.
- 15- Abdal-Razak Shehab ,Raed Al-Moussawy and Al-Majdi Kadhum “Dc Motor Design and Characteristics Using Matlab ”. Journal of Engineering and development, May, 2014, Vol. 18, No. 3. PP. 1813-7822.
- 16- Raed S.H. AL-Musawi, Ali H. Ali, Kadhum A. AL-Majdi " Adaptive Channel Equalization Using Tuning-Free Non-Parametric NLMS with Variable Step Size" international Journal of Electronics & Data communication , Vol.3, No. 4, PP. 119-130, June 2016.
- 17- Kadhum A. AL-Majdi " M-TRANSFORM: A NOVEL TIME TO TIME-FREQUENCY TRANSFORM" international Journal of Electronics & Data communication , Vol.3, No. 5, PP. 175-181, May 2017.
- 18- Walaa M. Khalaf, Noor Hashim Hamed, Kadhum Al-Majdi , A Novel Edge Detection Method Using K-means Clustering , Journal of Engineering and development, on publishing

#### **ACADEMIC ACTIVITIES:**

- More than ten papers published in international newspapers in Electromagnetism and Antennas.
- participated in international conferences with four papers.
- Participation in many seminars and workshops in China and East Asia States.
- Head of Organizing Committee for scientific seminar at the College of Computer Engineering (27/11/2012).
- Member of a ministerial delegation to view the higher education at Iranian Universities (26/12/2013).
- Head of Organizing Committee for the second scientific seminar at College of Computer Engineering (16/10/2014).

- Member of Organizing Committee for the college seminar (sustainable engineering the way for reform) (14/2/2016).
- Head of Organizing Committee to supervise the undergraduate's workshops (9/3/2016).
- Head of committee to discuss the self-evaluation report of College of Engineering Departments (8/2/2017).
- Member of Organizing Committee for the college seminar (sustainable engineering) (26/2/2017).
- Participation in the scientific forum at University of Salah Al-Deen-Erbil (2018).