

Dr. Wasan Kadhim Saad

AL-Furat AL-Awsat Technical University, Engineering Technical College-
Najaf, 31001 Najaf , Iraq.

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Background

➤ **Summary**

- ♣ Prior teaching experience at undergraduate level.
- ♣ Participation in collaborative research projects with other academics.
- ♣ Experience of strategic planning and leadership in higher education entities.
- ♣ Experience in Wireless Communications and Networks.
- ♣ Extensive experience in performance evaluation of wireless networks using good knowledge of MATLAB.

➤ **Work Experience**

1- Half-time & Full-Time External Lecturer

Ministry of Higher Education & Scientific Research, Foundation of Technical Education, Technical Najaf Institute, Department of Electrical Technology/ Electrical Power, Iraq.

October 1997 – October 2002

♣ 10/1997–10/1999 Full-time External Lecturer & 11/1999–10/2002 Half-time External Lecturer in Ministry of Higher Education & Scientific Research, Foundation of Technical Education, Technical Najaf Institute, Department of Electrical Technology/ Electrical Power, Iraq. Conducting lectures for the undergraduate students:

- ✓ Full-Time Teaching of Engineering Drawing, Sem II 1996/1997 & Sem I 1997/1998.
- ✓ Full-Time Teaching of Electronic, Sem II 1997/1998 & Sem I 1998/1999.
- ✓ Half-Time Teaching of Electronic & Electric Circuits and Measurement, Sem II 1998/1999, Sem I 1999/2000, Sem II 1999/2000, Sem I 2000/2001, Sem II 2000/2001, Sem I 2001/2002

- ✓ Teaching Electronic Laboratory I&Electric Circuits and Measurement Laboratory I (undergraduate), Sem II 1997/1998 &Sem I 1998/1999, Sem II 1998/1999, Sem I 1999/2000, Sem II 1999/2000, Sem I 2000/2001, Sem II 2000/2001, Sem I 2001/2002.

2- Full-time Teaching Assistant

Department of Communications Engineering, Engineering Technical College-Najaf, AL-Furat AL-Awsat University.

November 1999 – October 2002

♣11/1999–10/2002 Full-time Teaching Assistant in Department of Communications Engineering, Engineering Technical College-Najaf, Foundation of Technical Education, Baghdad, Iraq. Conducting lectures for the undergraduate students:

- ✓ Teaching the Electrical Engineering Fundamentals, Electrical Circuits & Electronic Circuits, SemII1998/1999, Sem I 1999/2000, Sem II 1999/2000, Sem I 2000/2001, Sem II 2000/2001, Sem I 2001/2002.
- ✓ Teaching Electrical Circuits Laboratory I & Electronic Circuits Laboratory I (undergraduate), Sem II 1998/1999, Sem I 1999/2000, Sem II 1999/2000, Sem I 2000/2001, Sem II 2000/2001, Sem I 2001/2002.

3- Full-time Assistant Lecturer

Department of Communications Engineering, Engineering Technical College-Najaf, AL-Furat AL-Awsat Technical University.

18th February2005 – 1 June2010

♣2/2005–6/2010 Full-time Assistant Lecturer in Department of Communications Engineering, Engineering Technical College-Najaf, Foundation of Technical Education, Baghdad, Iraq. Conducting lectures and advised graduate and undergraduate student:

- ✓ Teaching Electromagnetic Fields & Communication Engineering I, Sem II 2004/2005, Sem I 2005/2006, Sem II 2005/2006.
- ✓ Teaching Computer Systems & Digital Electronics, Sem I 2006/2007, Sem II 2006/2007

- ✓ Teaching Electronic Circuit Design & Communication System, Sem I 2007/2008, Sem II 2007/2008.
- ✓ Teaching Electrical Instrumentation & Antenna & Propagation, Sem I 2008/2009, Sem II 2008/2009
- ✓ Teaching Radar Systems & Satellite Communications, Sem I 2009/2010.
- ✓ Teaching Communication Engineering I Laboratory I (undergraduate), Sem II 2004/2005, Sem I 2005/2006, Sem II 2005/2006.
- ✓ Teaching Digital Electronics Laboratory (undergraduate), Sem I 2006/2007, Sem II 2006/2007.
- ✓ Teaching Electronic Circuits Laboratory & Communication System Laboratory II (undergraduate), Sem I 2007/2008, Sem II 2007/2008.
- ✓ Teaching Computer Applications /I (undergraduate), Sem I 2015/2016, Sem II 2016/2017.

4- Supervision for Undergraduate Research

Department of Communications Engineering, Engineering Technical College-Najaf, AL-Furat AL-Awsat University.

18th February 2005 – 1 June 2010

Supervision for Undergraduate Research in Department of Communications Engineering, Engineering Technical College-Najaf, involved in five research projects in the area of wireless communications.

- ✓ Assisted in preparing proposals and writing projects reports.
- ✓ Supervision on assigned research projects for undergraduate students.
- ✓ Working on both academic and administrative tasks.

5- Scientific Unity Manager

AL-Furat AL-Awsat University, Engineering Technical College-Najaf.

18th February 2005 – 20th March 2006

Scientific Unity Manager, Engineering Technical College-Najaf, Foundation of Technical Education, Iraq:

- ✓ Assisted in preparation and formulation of strategic plans for the Engineering Technical College-Najaf Sector.
- ✓ Prepared the progress report of annual activities of the Engineering Technical College-Najaf.
- ✓ Collected and analyzed the research papers for all lecturers in the Engineering Technical College-Najaf.
- ✓ Collected and analyzed data for all external lecturers and for the lecturers that studies in different universities inside and outside the country in the Engineering Technical College-Najaf.
- ✓ Monitored and evaluated the performance of different sections in the Engineering Technical College-Najaf.

➤ **Skills**

❖ *Top Skills*

Matlab, Research, Teaching, Algorithms, Project Planning, Analysis, Programming, Simulations

❖ **Dr. Wasan Kadhim Saad also knows about...**

Windows, Microsoft office, Microsoft Excel, Power Point, Microsoft Word, Wireless Communications, Higher Education, LaTeX

➤ **Languages**

1. **English**
Professional working proficiency
2. **Arabic**
Native or bilingual proficiency

➤ **Education**

- 1- *Department of Electrical & Electronic Engineering, University of Technology, Baghdad, Iraq*

Bachelor's (B.Sc.) degree in Electrical and Electronic Engineering/ Electronic & Communication, (57)

1997

2- Department of Electrical & Electronic Engineering, University of Technology, Baghdad, Iraq

Master's (M.Sc.) Degree in Satellite Communication Engineering, (76.618)

2005

Dissertation entitled "Hybrid DPCM/WT for Image Compression"

3- Faculty of Engineering and Built Environment, UKM, Malaysia

Doctor of Philosophy (PhD) in Electronics, Electrical and Systems Engineering

Dissertation entitled "Evolutionary Algorithms for Sensing Static and Dynamic Primary User Signals in Cognitive Radio Networks"

2016

➤ **Publications**

1- Survey of Adaptive Modulation Scheme in MIMO Transmission(Link)

Journal of Communications (JCM), (**Scopus indexed**), **December 2012**

2- Performance Analysis of Link Adaptation MIMO in WiMAX Systems (Link)

Journal of Asian Scientific Research, (**Scopus indexed**) & Conference on Engineering and Built Environment (ICEBE 2012), Malaysia, **2012**

3- *On the Performance of Cooperative Spectrum Sensing of Cognitive Radio Networks in AWGN and Rayleigh Fading Environments (Link)*

KSII Transactions on Internet and Information Systems, (ISI & Scopus indexed, Q3), (IF @ JCCR2012 = 0.560), August 30, 2013

4- *Improved Detection Performance of Cognitive Radio Networks in AWGN and Rayleigh Fading Environments*

Journal of Applied Research and Technology, (ISI & Scopus indexed, Q4), (IF. @ JCCR2012=0.335), 2013

5- *Effect of Work Period of the Primary User on Spectrum Sensing Schemes Based on MDE-Dynamic Energy Detection (Link)*

2nd International Conference on Electronic Design (ICED), Penang, Malaysia
August 19-21, 2014

6- *Spectrum sensing schemes for static primary user signal under AWGN and Rayleigh fading channels (Link)*

Journal of Theoretical and Applied Information Technology (JATIT), (Scopus indexed),
20th September 2015

7- *Spectrum Sensing Schemes for Dynamic Primary User Signal under AWGN and Rayleigh Fading Channels (Link)*

Journal of Communications (JCM), (Scopus indexed), 2015

8- *Multi-Stage Cross Entropy Optimization Algorithm for Hard Combining Schemes in Cognitive Radio Network (Link)*

12th IEEE Malaysia International Conference on Communications (MICC2015), Malaysia, 2015

9- *Optimality of the HDC Rules in Cooperative Spectrum Sensing for Cognitive Radio Network (Link)*

1st IEEE International Conference on Telematics and Future Generation Networks (TAFGEN), Malaysia, **2015**

10- *Effect of Fiber Composition on Material Dispersion*

1st Scientific Conference Technical College-Najaf,Iraq, **2008**

11- *Method for Detection and Diagnosis of the Area of Skin Disease Based on Color by Wavelet Transform and Artificial Neural Network*

Journal of Al-Qadisiya for Engineer Science, Iraq,**2009**

➤ **Professional Certification**

1- Certificate :Network Simulator NS-2

Issuer: IEEE UKM Student Branch, Faculty of Engineering & Built Environment, National University of Malaysia (UKM)

Date Issued: 2012

Country of Examination: Malaysia

2- Certificate :Short Course on MATLAB for Telecommunications

Issuer: IEEE Malaysia Section, Postgraduate Laboratory, Faculty of Engineering & Built Environment, UKM

Date Issued: 2011

Country of Examination: Malaysia

3- Certificate :Workshop on Note Management in Research

Issuer: Faculty of Engineering & Built Environment, National University of Malaysia (UKM),
Selangor Darul Ehsan

Date Issued: 26th June 2013

Country of Examination: Malaysia

4- Certificate : *English Language Proficiency Module*

Issuer: School of Language Studies and Linguistics, National University of Malaysia (UKM)

Date Issued: Semester I, 2010/2011

Country of Examination: Malaysia

➤ **Volunteer Experience & Causes**

Causes Dr. Wasan Kadhim Saad cares about:

- Education
- Science and Technology

➤ **Organizations**

IEEE

Starting January 2011

➤ **Reviewer**

TCP (Technical Program Chairs) member in the ISTT 2016 Conference. Thus, i make reviewer for the following papers:

1- *Joint Energy and Throughput based multichannel assignment in Cognitive Radio Sensor Network*

2- *Enhanced Spectrum Sensing Based on Energy Detection in Cognitive Radio Network using Adaptive Threshold*