

## Curriculum Vitae



### Prof. Maher K. Mahmood

Mustansiriyah University – College of –Engineering/Elec. Eng. Dept-----

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#### PERSONAL SUMMARY:

University professor in communication engineering since 1/7/2002

#### Previous positions:

- 1- M.Sc. course tutor, /8 years/Elec. Eng. Dept. College of Eng. Al-Mustansiriyah Univ.
- 2- Head of Elec. Eng. Dept. /5 years/ college of Eng. Al-Mustansiriyah Univ
- 3- Dean Deputy for scientific affairs and postgraduate studies/3 years./ college of Eng. Al-Mustansiriyah Univ
- ~~4- Dean of the college of Eng. Al-Mustansiriyah Univ /6 months,~~
- 5=Head of the scientific promotion committee,/ 3 years/ college of Eng. Al-Mustansiriyah Univ
- 6- Head of the scientific promotion committee of Al- Mustansiriyah university/1 year

#### EDUCATION:

B.Sc Degree (1<sup>st</sup>. class honour) college of Eng. Univ of Baghdad , June 1980.

M. Sc. Degree(1<sup>st</sup>. class honour) college of Eng., Univ. of Baghdad , Dec. 1983

#### ACADEMIC /TEACHING EXPERIENCE:

- #1 هندسة الاتصالات
- #2: الرياضيات الهندسية

Under-graduate: Courses taught	Post-graduate
Digital Communication/4 <sup>th</sup> year	Coding theory/ M.Sc.
Eng. Math./2 <sup>nd</sup> year	Numerical techniques/ M.Sc.
Eng. Statistics /3 <sup>rd</sup> year	Advanced Eng. Math/ M.Sc.
Eng. Math/1 <sup>st</sup> year	Secure digital communication/ M.Sc.

## PUBLICATIONS:

No.	Title
1-	Fast Detection of the Parameters of a Pure Sinusoidal Signal, M. Sc. Thesis, College of Eng., Univ. of Baghdad, Baghdad, Iraq, 1983
2-	Fast Peak Detection of Sinusoidal Signals, Proc. of the IEEE Comm. & Energy Conf., Oct. 1982, Montreal, Canada
3-	Fast Frequency Detection of Sinusoidal Signals, Int., J. Electronics, ,Vol.54, No.6, 1983, England
4-	Fast Peak Measurement of Sinusoidal Signals, Int., J. Electronics, Vol.55, No.6, 1983, England
5-	Transient Response of the Modified variable phase shift automatic voltage Regulator, IEE Proceedings, Vol. 131, Pt. G., No. 1, Feb 1984, England
6-	A simple Fast Frequency Detector for a Constant Amplitude Sinusoid, IEEE Trans. On Instrumentation & Measurement, Vol. IM-33, No.4, Dec. 1984, USA
7-	Microprocessor Implementation of a Fast & Simultaneous Amplitude & Frequency Detector for Sinusoidal Signals, IEEE Trans. On Instrumentation & Measurement, Vol. IM-34, No.3, Sept. 1985, USA
8-	Special Nonlinear PN sequences with Desirable Properties, Proc. of the 1st. Iraqi Conf. On Engineering, Baghdad, Iraq, 1985.
9-	Correlation Properties of the Geffe Sequences, Proc. of MILCOM 86, IEEE Military Comm. Conference, California, Oct. 1986
10-	A Noise generator with Programmable Distribution, Int., J., Electronics, 1987, Vol.63, No.6, England
11-	Improving the Settling Time of a Digital Phase Lock Frequency Synthesizer, Int., J. Electronics, 1987, Vol.62, No.2, England
12-	A Simple Method for the Generation of Delayed Linear PN sequences, Proc. MTC Conf, RSSP1, July 1987, Baghdad, Iraq
13-	Nonbinary Pseudorandom Sequences with Two-Valued Correlation function, MTC Journal, 1988, Baghdad, Iraq
14-	Generation of Gaussian Pseudorandom Process with Specific correlation Properties, Int., J., System Science, 1988, Vol.19, No.11, England



15-	Gaussian Noise Generators with Specific autocorrelation Properties, Int. J. Electronics, 1989, Vol.66, No.5, England
16-	Programmable Delaying Circuit for Linear Feedback Shift Register Pseudonoise Sequences, Int., J., Electronics, 1989, Vol.66, No.3, England
17-	Generation of Gaussian Random Process with Arbitrary Desired Spectral Density, Journal of the Institution of Engineers, India, May 1990
18-	Autocorrelation Function of Non-Binary Sequence Generated from Binary PN Sequence, MTC Journal, 1989, Baghdad, Iraq
19-	Generation of Randomly Distributed Burst & Isolated Bit Errors for Data Signals, Proc. 2 <sup>nd</sup> . MCE Eng. Conf., March 1994
20-	Fast Sequential Estimation for Acquisition of Pseudonoise Signals, Journal of the Institution of Engineers, India, March 1995
21-	Simple Harmonic Analysis for Symmetrical Waveforms, Journal of Eng. & Development, 1998, Baghdad, Iraq
22-	Noncoherent Acquisition Schemes for Direct Sequence Spread Spectrum system in the Presence of Data Modulation, , Proc. 3 <sup>rd</sup> .. MCE Eng. Conf., April 2000
23-	New Low Angle of Arrival Estimator Based on ESPRIT Algorithm, Journal of Al-Nahreen Univ., 2000, Baghdad, Iraq
24-	Speech denoising using wavelet transform, accepted for publication, Journal of eng. And development.
25-	Speech Intelligibility Evaluation Using Cepstral Distance Measure, Journal of Eng. & Development, 2002, Baghdad, Iraq
26-	Concatenated Coding of Digital Signals for Multipath Fading HF Channel, Journal of Eng. & Development, 2002, Baghdad, Iraq
27-	Cepstral Based Speaker Recognition System, Journal of Eng. & Development, 2004, Baghdad, Iraq
28-	Range-Sidelobe Reduction By Least-Squares Inverse Filtering, Journal of Al-Nahreen Univ., 2006, Baghdad, Iraq
29-	Fast and Multicarrier Frequency Hopping signals over Frequency Selective Rayleigh Fading channel, Journal of Eng. & Development, 2006, Baghdad, Iraq

30-	Performance Evaluation of Orthogonal Frequency Division Multiplexing Over Frequency Selective Rayleigh Fading HF Channel, Eng. & Technology Journal, Univ. of Technology, 2007
31-	Robust Identification of digital modulation using wavelet transform, Iraqi comprehensive scientific conference, Al-Mustansi. Univ. Oct. 2009, Baghdad, Iraq
32-	Speech compression using residual excited linear prediction in wavelet domain, Iraqi comprehensive scientific conference, Al-Mustansi. Univ. Oct. 2009, Baghdad, Iraq
33-	Image Stegoanalysis using higher order statistics, Journal of Al-Nahreen Univ., 2008, Baghdad, Iraq
34-	Text independent speaker identification using Gaussian mixture model GMM, proc. Of computer and comm.. conference, Univ. of Technology, 2009
35-	Text independent speaker identification using probabilistic neural network, Journal of Madenat Al-elem college (JMAC) Vol.1, No.1., 2009
36-	Speech denoiseing using wavelet transform, accepted for publication, Journal of eng. And development.
37-	Joint source channel coding using variable length error correcting codes Journal of Eng. & Development, 2011, Baghdad, Iraq
38-	Impulsive Noise detection and supression in OFDM system using over sampling filter, submitted for publication
39-	Adaptive modulation for OFDM systems., accepted for publication, Journal of eng. & technology, Baghdad, Iraq
40-	Direct sequence spread spectrum signal detection based chaos theory, accepted for publication, eng. Conf. for postgraduate papers, college of eng., Al-mustansiriyah univ.
41	Peak to Average power ration reduction using distortionless methods in OFDM systems, accepted for publication, Journal of the university of Missan, College of Education
42-	Speech scrambling employing Lorenz fractional order chaotic system, vol.17, No.4, pp-195-211, 2013, Journal of Eng. & Development, 2013, Baghdad, Iraq
43-	Performance Comparison of Chaos Based Digital Modulation Techniques over Frequency Selective Rayleigh Fading Channels, accepted Journal of Eng. & Development, 2014, Baghdad, Iraq



44-	Image encryption based compressive sensing, proc. Of International . conference of eng. Science, 26-27 March 2014, college of Eng. Al-Mustansiriya univ.
45-	Bit error rate enhancement of DS-CDMA comm. System using orthogonal chaotic vectors, , proc. Of International . conference of eng. Science, 26-27 March 2014, college of Eng. Al-Mustansiriya univ
46-	Image encryption and compression based compressive sensing and chaos, Int. Journal of computer eng and technology, IJCET, Vol.5, Issue 1, Jan.2014
47-	High capacity steganography based on chaos and contourlet transform for hiding multimedia data, In. Journal of electronics and communication engineering and technology IJCET, Vol.5 issue 1, Jan 2014
48-	Performance Evaluation of DS-CDMA System based Orthogonal Chaotic Vectors over Rayleigh Fading Channel, Int. Journal of computer applications, Vol.114, No.3, March 2015
49-	Image transmission over Rayleigh fading channels using Turbo code with multidimensional chaotic interleavers, Journal of Eng, & development, Nov.2015
50-	Face identification based on contourlet transform and multilayer perceptron classifier, Int. Journal of computer applications, Vol.123, No.2, Jan. 2016
51-	Combined speech compression & encryption using contourlet transform and compressive sensing,, Int. Journal of computer applications, Vol.140, No.5, April 2016
52-	Face identification based contourlet transform with optimal band selection, Saussurea Journal, Switzerland , vol.6, Nov. 2016
53-	Public key cryptosystem based on multiple chaotic maps for image encryption, Indonesian Journal of Electrical Engineering and Computer Science, June 2021
54-	Combined speech compression and encryption using chaotic compressive sensing with large key size, IET, signal processing, April 2018
55-	Multilevel magnetic resonance imaging compression using compressive sensing, IET image processing, Dec 2018
56	Image Denoising Using Contourlet Transform with Variable Block Thresholding, IEEE conference, UK, 2018
57-	Performance comparison of some weak signal detection techniques, Indonesian Journal of Electrical Engineering and Computer Science, May 2022
58-	Spectrum sensing of wideband signals based on cyclostationary and compressive sensing, Indonesian Journal of Electrical Engineering and Computer Science, May 2019
59-	Impulsive noise mitigation based adaptive filtering and Reed Solomon coding for power line communication, The Bulletin of Electrical, to be published in June 2023 Engineering and informatics



60-	Performance Comparison of Time and Time-Frequency Domains Impulsive Noise Mitigation Techniques for Power Line Communications, Journal of Engineering and Sustainable Development (JEASD), Jan. 2023
61-	Video Compression Based on Motion Compensation and Contourlet Transform, IEEE conference, Iraq, Dec.2018
62-	An Improved Public Key Cryptosystem Based on Chebyshev Chaotic Map over Finite Field, Journal of Engineering and Sustainable Development (JEASD), June,2020
63-	PERSON IDENTIFICATION BASED ON DIFFERENT COLOUR MODELS IRIS BIOMETRIC AND CONTOURLET TRANSFORM, Journal of Engineering and Sustainable Development (JEASD), Jan,2020
64-	SPECTRUM SENSING OF WIDE BAND SIGNALS BASED ON ENERGY DETECTION WITH COMPRESSIVE SENSING, Journal of Engineering and Sustainable Development (JEASD), Jan,2020
65-	Performance comparison of some weak signal detection techniques, Indonesian Journal of Electrical Engineering and Computer Science, May 2022
66-	WEAK SIGNAL DETECTION BASED ON MULTIPLE AUTO-CORRELATION TECHNIQUES, Journal of Engineering and Sustainable Development (JEASD), June,2021
67-	Spectrum sensing of wideband signals based on cyclostationary and compressive sensing” Indonesian Journal of Electrical Engineering and Computer Science, 2020
68	Impulsive noise mitigation based adaptive filtering and Reed Solomon coding for power line communication , Bulletin of Electrical Engineering and Informatics , August 2023
69	Performance Comparison of Time and Time-Frequency Domain Impulsive Noise Mitigation Techniques for Power Line Communications, Journal of Engineering and Sustainable Development (JEASD), Jan. ,2023
70-	High capacity video steganography based on chaotic maps for high efficiency video coding (HEVC), accepted for publication, Journal of Engineering and Sustainable Development (JEASD), August. ,2023
71-	High capacity double precision image steganography based on chaotic maps, accepted for publication, Bulletin of Electrical Engineering and Informatics , June 2023

• **:POST-GRADUATE SUPERVISION** •

**About 37 post-graduate students were graduated under his supervision**

  
 الأستاذ المساعد الدكتور  
 عبد الجبار محمد جبار  
 عماد الهندسة الكهربائية

Signature Head of Department

أ.م.د. ياسين يوسف هادي  
رئيس قسم الهندسة الكهربائية  
٢٠٢ / /



Signature Vice Dean

الأستاذ المساعد الدكتور  
عبدالله محمد صالح  
عميد الكلية



## السيرة الذاتية

### الاستاذ ماهر خضير محمود

الجامعة المستنصرية - كلية الهندسة | قسم الهندسة الكهربائية-

ت- ٠٧٧٠٢٨٥١٧٩

E-mail: maher.alazawi@uomustansiriyah.edu.iq

ملخص تعريفي: تدريسي حاصل على مرتبة الاستاذية اعتباراً من ٢٠٠٢/٧/١

#### التكليفات الادارية السابقة

- ١- مقرر الدراسات العليا لثمانية سنوات | كلية الهندسة | قسم الهندسة الكهربائية
- ٢- رئيس قسم الهندسة الكهربائية لخمس سنوات | كلية الهندسة | الجامعة المستنصرية
- ٣- معاون الصيد للشؤون العلمية لثلاث سنوات | كلية الهندسة | الجامعة المستنصرية
- ٤- عميد كلية الهندسة لسنة اشهر | الجامعة المستنصرية
- ٥- رئيس لجنة الترقيات العلمية لثلاث سنوات | كلية الهندسة | الجامعة المستنصرية
- ٦- رئيس اللجنة المركزية للترقيات العلمية لسنة واحدة | الجامعة المستنصرية

#### الشهادات الدراسية:

- Ph.D. #1:
- M.Sc. #2: ماجستير هندسة الكونيك واتصالات بمرتبة الشرف الاولى-جامعة بغداد-١٩٨٣
- B.Sc. #3: بكالوريوس هندسة كهربائية بمرتبة الشرف الاولى-جامعة بغداد-١٩٨٠

#### الخبرة الاكاديمية والتدريس:

- #1: هندسة الاتصالات
- #2: الرياضيات الهندسية

المقررات الدراسية التي تم تدريسها:

الدراسات الاولى	الدراسات العليا
Digital Communication/4 <sup>th</sup> year	Coding theory/ M.Sc.
Eng. Math./2 <sup>nd</sup> year	Numerical techniques/ M.Sc.
Eng. Statistics /3 <sup>rd</sup> year	Advanced Eng. Math/ M.Sc.
Eng. Math/1 <sup>st</sup> year	Secure digital communication/ M.Sc.



No.	Title
1-	Fast Detection of the Parameters of a Pure Sinusoidal Signal, M. Sc. Thesis, College of Eng., Univ. of Baghdad, Baghdad, Iraq, 1983
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71-	High capacity double precision image steganography based on chaotic maps, accepted for publication, Bulletin of Electrical Engineering and Informatics , June 2023

• الاشراف على رسائل الدراسات العليا: •

• لديه اشراف على 37 رسالة دراسات عليا في الجامعة المهنتصرية



توقيع معاون العميد

الأستاذ المساعد الدكتور  
عائج محمد الجبوري  
معاون العميد للشؤون العامة

توقيع رئيس القسم



أ.م.د. ياسين يوسف محمد  
رئيس قسم الهندسة الكهربائية  
٢٠٢