

CURRICULUM VITAE

Name: Maha George Zia George .



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Current Position:

Location: Iraq- Kurdistan Region – Erbil – SalahaddinUniversity - College of Engineering - Electrical Engineering Department.

Dates of employment: 1987 – until now

Professional title: Assistant Professor.

Previous position(Employment):

1987-1992: An Engineer in the Electrical Engineering Department, College of Engineering, Al-Mustansiryia University.

1992-1995 : Assistant Lecturer in the Electrical Engineering Department, College of Engineering, Al-Mustansiryia University.

1995-2001: A Lecturer in the Electrical Engineering Department, College of Engineering, Al-Mustansiryia University.

2001-16/2/2011: Assistant Professor in the Electrical Engineering Department, College of Engineering, Al-Mustansiryia University.

17/2/2011- 12/11/2016: Assistant Professor in the Software Engineering Department, College of Engineering, Salahaddin University.

13/11/2016-until now: Assistant Professor in the Electrical Engineering Department, College of Engineering, Salahaddin University.

Author and reviewer in global confererances

- Participation as an author in below conferences, they are:
 - IASTED international conference on Signal and Image Processing (SIP 2009), Honolulu, Hawaii, USA, 17-19 August 2009.

- 4th WSEAS International conference on Circuits, Systems, and Telecommunications (CISST'10), University of Harvard, Cambridge, USA, Jan 27-29 2010.
- IASTED international conference on Signal and Image Processing (SIP 2011), Dallas, USA, 14-16 Dec. 2011.
- IEEE senior member since June 2014.
- Reviewer for International Conference on Information Science and Application (ICISA 2011), April 27-29 2011, Jeju Island, Korea, <http://global.kcis.kr/icisa2011> .
- Reviewer for International Conference on IT convergence and security (ICITCS 2011), Dec. 14-16 2011, Suwon, Korea, <http://conf.kcis.kr/main/main.asp>
- IEEE member since 2007 until now.
- Reviewer for WSEAS Journals and conferences, since 2013 until now, www.wseas.org.
- Reviewer for 2013 Asia Conference on Future Trends in Computing and Communication (ACFTCC 2013), Oct 22-24, 2013, Shanghai, China, <http://ieit-pub.org/ACFTCC2013>
- Reviewer in EDAS conferences, since 2012 until now.
- Reviewer for Zanko Journal – Salahaddin University , since 2016 until now

Education and Area of Interest:

B.Sc. in Electrical Engineering July 1986.

Electrical Engineering Department, College of Engineering, Baghdad University- Baghdad- Iraq

M.Sc. in Electrical Engineering (Electronics and Communications Engineering) ... April 1992.

Electrical Engineering Department, College of Engineering, Baghdad University- Baghdad - Iraq

General specifications: Electrical Engineering

Precise specifications: Digital Electronics and Communications Engineering.

Area of Interest: includes data communications, multi-carrier systems, channel coding, MIMO systems, OFDM system, SC-FDMA system, and digital signal processing

Publications

- 1- Maha George Zia, "**DC Solutions of Nonlinear Circuits,**" *AL-Muhandis*, Vol. 124, No.4, pp. 17-25, Dec. 1995.
- 2- Thikwan M. Saleem, Maha G. zia, and Laith M. Al-Rawi, "**Digital Frequency Comparator** ,"*AL-Muhandis*, Vol. 126, No. 2, pp. 12-17, June 1996.
- 3- Maha George Zia," **Design of Multipurpose Frequency Measuring Device,**" *Journal of Engineering and Development*, Vol.3, No.1, pp. 39-45, Jan. 1999.
- 4- Maha George Zia, "**Realization of Quaternary Reed-Muller Switching Functions** ," *Journal of Engineering and Development*, Vol.4, No.3, pp. 54-64, Nov. 2000.
- 5- Maha George Zia, "**Quaternary Reed-Muller Switching Functions with fixed polarity,**" *Journal of Engineering and Development*, Vol.5, No.1, pp. 110- 122, April. 2001.
- 6- Maha George Zia, "**Encoding and Error Correction Procedure for Reed-Solomon Codes,**" *Journal of Engineering and Development*, Vol.6, No.1, pp. 37- 48, March. 2002.
- 7- Maha George Zia, "**Forward Error Correction using Reed-Solomon / Convolutional Concatenated Codes,**" *Journal of Engineering and Development*, Vol.7, No.2, pp. 51-65, Oct. 2002.

- 8- Maha George Zia, and Samir Abd Al-Cathem, "**Serial Concatenated codes Based on Iterative and Non-Iterative Decoding**," *Journal of Engineering and Development*, Vol.10, No.1, pp. 48-65, March 2006.
- 9- Maher K. Al-Azawi, Maha George Zia, and Amal M. Noori, "**Fast and Multicarrier Frequency Hopping Signals over Frequency Selective Rayleigh Fading Channel**," *Journal of Engineering and Development*, Vol.10, No.3, pp.47-59, Sept. 2006.
- 10- Maha George Zia, "**Iterative Decoding of Serial Concatenated Convolutionally Encoded Signals Over Frequency Selective Fading Channel**," *Journal of Engineering and Development*, Vol.11, No.2, pp. 104-112, Sept. 2007.
- 11- Maha George Zia, and Khaleel Abdul Khader, "**Comparison between Modified BCJR and SOVA Decoders over AWGN Channel**," *Journal of Engineering and Development*, Vol.11, No.3, pp.61-75, Dec. 2007.
- 12- Maha George Zia, and Harith A. Nassir, "**Multiuser Detection for Group Orthogonal Multicarrier Code Division multiple Access System in Frequency Selective Rayleigh Fading Channel**," *Journal of Engineering and Development*, Vol.12, No.4, pp.148-158, Dec. 2008.
- 13- Maha George Zia, "**Channel Estimation using Adaptive Filtering in OFDM System**," *IASTED international conference on Signal and Image Processing (SIP 2009)*, pp.25-27, Honolulu, Hawaii, USA, 17-19 August 2009.
- 14- Maha George Zia, "**Frequency Domain Equalization Techniques Applied To Group Orthogonal Multi-Carrier Code Division Multiple Access**," *4th WSEAS International conference on Circuits, Systems, and Telecommunications (CISST'10)*, pp. 35- 38, University of Harvard, Cambridge, USA, Jan 27-29 2010.
- 15 Maha George Zia and Sameer Akram Dawood, "**Frequency Domain Equalization Techniques for Multi-Code DS-CDMA in Frequency Selective Rayleigh Fading Channel**," *Hendasa Journal*, College of Engineering, Baghdad University, Vol. 16, no. 3, pp.5363-5376, Sept.

2010.

- 16 Maha George Zia and Fadia Noori, "**Performance of Channel Estimation for OFDM System Based on Block-Type Pilot Arrangement in Rayleigh Fading Channel,**" *Communications and Computer Conference*, College of Engineering, Al_Mustansirya University, Dec. 6-7 2010.
 - 17 Maha George Zia, "**Performance of MC-CDMA / TDM using Superimposed Pilot Channel Estimation,**" *IATED international conference on Signal and Image Processing (SIP 2011)*, pp.156-160, Dallas, USA, 14-16 Dec. 2011.
 - 18 Maha George Zia, "**Performance of Chaos-Based MC-CDMA in Frequency Selective Fading Channel,**" *International Journal of Scientific & Engineering Research*, Volume 4, Issue 1, pp.1 – 4, January-2013.
 - 19 Maha George Zia, " **Low Complexity Channel Estimation for MC-CDMA System Based Chaos under Fast Multipath Channel,**" *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)* Volume 9, Issue 1, Ver. V (Feb. 2014), PP 28-35.
- Note:** this research is indexed in ANED-DDL(*American National Engineering Database-Digital data link*) under the number **14.2834/iosr-jece-F09152835.***
- 20 Maha George Zia," **New SC-FDMA scheme based spatial multiplexing with cyclic delay diversity for uplink LTE,**" *International Journal of Modern Communication Technologies & Research (IJMCTR)*, Volume-3, Issue-9, September 2015.
 - 21 Maha George Zia," **Adaptive Frequency Domain Equalizer for MIMO SC-FDMA System**" *Second international conference of Engineering and Innovating Technology (SU-ICEIT 2019)*, pp.1-6, Erbil, Iraq, April 14-16 2019.

Articles under work:

1. Maha George Zia," Adaptive Frequency Domain Affine Projection Equalizer of MIMO SC-FDMA Based Overlap-Save Method".

Other Relevant academic works:

- Member in a scientific committee in the college of Eng. – Al Mustansiria University and in Electrical Eng. Dept. department since 1992 until 2011.

- Member in a scientific promotion committee in the college of Eng. – Salahaddin University since 2011 until Sept. 2015.

- Member in a higher education committee and scientific committee in the Software Eng. Dept -college of Eng. – Salahaddin University since 2011 until now.

- Head of quality assurance in the Software Eng. Dept -college of Eng. – Salahaddin University since 2011 until Sept. 2014.

- A member and a head in the examining committee of MSc. Theses since 2001.

- Supervision of More than 40 B.Sc. researches.

- Supervision of the below Master's theses. They are:
 - 1-Fast and Multicarrier Frequency Hopping Signals over Frequency Selective Rayleigh Fading Channel.
 - 2- Serial Concatenated codes Based on Iterative and Non-Iterative Decoding
 - 3- Comparison between Modified BCJR and SOVA Decoders over AWGN Channel
 - 4- Multiuser Detection for Group Orthogonal Multicarrier Code Division multiple Access System in Frequency Selective Rayleigh Fading Channel
 - 5- Performance of DS-CDMA using Frequency Domain Equalization in Frequency Selective Rayleigh Fading Channel.

6- Iterative Decoding of Partial Response Channels in AWGN Channel.

7- Channel Estimation for OFDM System Based on Block-Type Pilot Arrangement in Rayleigh Fading Channel.

8- Multi-code Multicarrier Code Division Multiple Access in a Fading Channel.

Teaching Subjects (postgraduate and undergraduate):

- 1- Digital Communications.
- 2- Digital Signal Processing.
- 3- Error Control Coding.
- 4- Engineering Analysis.
- 5- Numerical Analysis.
- 6- Digital Electronics.
- 7- Analogue Electronics
- 8- Electronics and communications laboratories.