

CURRICULUM VITAE

I. PERSONAL

Name: Mohammed Samir Modabbes

Nationality: Syrian

Job Title: Professor

Marital Status: Married

Children: Three kids

E-mail: msmodabbes@alepuniv.edu.sy

Mobile: +963-944417118

Home: +963-21-5214571



II. EDUCATION

- Doctor of philosophy (Ph.D.) in Technical Sciences- Specialization Communications Engineering – The Sankt - Peterburg Electrotechnical Institute of Communications - Department of Radio Transmitters – Russia - 1992
- (Advanced Course in Specialization) (M. Sc.) The Leningrad Bonch- Bruyevitch Electrotechnical Institute of Communications – Department of Radio Transmitters – Russia - 1988
- B. Sc. In Electronic Engineering - Faculty of Electrical & Electronic Engineering - University of Aleppo – Syria - 1982

III. LANGUAGES

Arabic (Native), English, Russian

IV. POSITIONS HELD

1983-1986: Operating Engineer in Radio and TV Center in Aleppo.

1986-1993: Teaching Assistant in Telecommunications in Aleppo University.

1993-2000: Assistant Professor Telecommunications

2001-2015: Associate Professor Telecommunications

1994- 2004: Head of Telecommunications Laboratory

2002- 2003: Head of Communications Engineering Department

2004 - 2006: Associate Professor at al-Baha Private College of Sciences (Head of Computer Engineering Department) – Saudi Arabia

2006 - 2010: Associate Professor at Qassim University – College of Computer - Department of Computer Engineering - Saudi Arabia

2011- 2013: Head of Communications Engineering Department

2015-Present: Professor Communications Engineering

2019-2022: Head of Drawing & Painting Department - Faculty of Fine & Applied Arts - Aleppo University

V. Books

- 1) M.S.Modabbes, “**Communications Engineering**”, Aleppo University Publications, 1997.
- 2) M.S.Modabbes & A.A.Kayali “**Communications Engineering-II**”, Aleppo University Publications, 1996.
- 3) M.S.Modabbes “**Digital Signal Processing**”, Aleppo University Publications, 2012.

VI. Refereed journal papers

- 1) M.S.Modabbes, “**The Optimum Design of Cellular Radio Networks Using CDMA Technique**”- *Research Journal of Aleppo University, issue 25, 1999*
- 2) M.S.Modabbes, “**Study the Influence of SDMA Technique on the Capacity of CDMA Cellular Systems**” - *Research Journal of Aleppo University, issue 34, 2003*
- 3) M.Samir Modabbes, M.Y. Barakat, I. Ramadan, “**Study the Effect of Hydrophysical Parameters**

on Sound Propagation in Territorial Waters of Syria”, Research Journal of Aleppo University, issue /40/, 2004

- 4) M.S.Modabbes and Salem Nasri, “**Bit Error Rate Analysis for BPSK Modulation in Presence of Noise and Two Co-channel Interferers**”, IJCSNS -International Journal of Computer Science and Network Security, VOL.10 No.5,pp.152-155, May 2010, South Korea
- 5) M.S.Modabbes, “**BER Analysis of BPSK Signal in AWGN Channel**”, IJCNS -International Journal of Computer and Network Security, VOL.2 No.6, pp.55-58, June 2010, Malaysia
- 6) M.S. Modabbes, “**Experimental Comparison of Fiber Optic Link Impact on Shift Keying Modulations**”, IJCNS -International Journal of Computer and Network Security, VOL.2 No.6, pp.130-132, June 2010, Malaysia
- 7) M.S. Modabbes, “**Analysis the Effect of Co-channel Interference on DS Spread Spectrum Signals used in Cellular Networks**” - Research Journal of Aleppo University, issue 101, 2011
- 8) M.Samir Modabbes, N. Munajed, “**Decreasing Co-channel Interference in Downlink of WCDMA System Using Adaptive Equalizer** ” - Research Journal of Aleppo University, issue /107/, 2012
- 9) M.Samir Modabbes, M. Shaar, N. Mshati, “**Improving the Performance of Electronic Voting Using Secret Sharing** ” - Research Journal of Aleppo University, issue /113/, 2013
- 10) M.S. Modabbes, “**Analysis and Reduction of Multi Co-channel Interference in Wireless Communication Systems**” –King Faisal Scientific Journal, issue /1/,Vol./13/, 2012, KSA
- 11) M.Samir Modabbes, Esber Ebrahim, Waddah Mallouk, “**Improving the Detection in OFDM System Using Matrix Convolution Technique with Neural Networks** ” - Research Journal of Aleppo University, issue /120/, 2015
- 12) M.Samir Modabbes, Esber Ebrahim, Waddah Mallouk, “**Improving the Detection Process in OFDM System Using Fuzzy Logic**” - Research Journal of Aleppo University, issue /121/, 2015
- 13) M.Samir Modabbes, Esber Ebrahim, Waddah Mallouk, “**Performance Analysis of OFDM System using 16-PSK and 16-DPSK Modulations with AWGN & Rayleigh Fading**” - Research Journal of Aleppo University, issue /122/, 2015
- 14) M.S. Modabbes, “**The Effect of Adjacent Channel Interference Analysis on WCDMA Downlink System using QAM Modulation**” - Research Journal of Aleppo University, issue /122/, 2015
- 15) M.Samir Modabbes, Esber Ebrahim, Waddah Mallouk, “**Comparing the Performance of Three Fuzzification and Defuzzification Methods for Improving the Detection Process in OFDM System**” - Research Journal of Aleppo University, issue /123/, 2015
- 16) M.S. Modabbes “**Co-channel Interference (CCI) Analysis & Reduction in WCDMA Downlink System**” - Research Journal of Aleppo University, issue /126/, 2015
- 17) M.Samir Modabbes, Motaz Akkad, “**Proposed Method for MANETs Security Enhancement**” - Research Journal of Aleppo University, issue /136/, 2017
- 18) M.Samir Modabbes, Aziz Akkub, “**Analyzing & Evaluating the Performance of RPL in WSN Networks Using Different Routing Metrics**” - Research Journal of Aleppo University, issue /143/, 2018
- 19) M.Samir Modabbes, Alaa Aldeen Alali, “**A comparison between the self-cancellation techniques in distribution of a symbol on subcarriers to reduce ICI in OFDM systems in terms of BER and CIR** ” - Research Journal of Aleppo University, issue /144/, 2018
- 20) M.Samir Modabbes, Alaa Aldeen Alali, “**An Efficient Technique to ICI-Self Cancellation in OFDM Systems** ” - Research Journal of Aleppo University, issue /147/, 2019
- 21) M.Samir Modabbes, Rimaz Surur, “**A Proposed Method for Improving the RC4 Algorithm**” - Research Journal of Aleppo University, issue /151/, 2019

- 22) M.Samir Modabbes, Basel Alkhatib, "**Design of Pythagoras Tree Shaped Fractal Antenna for Multi-band Applications**" - *Research Journal of Aleppo University*, issue /152/, 2020
- 23) M.Samir Modabbes, Mohamad Fagher Karzon, "**A Proposed Technique to Prevent ARP spoofing in Local Area Networks**"- *International Journal of Computer Applications*, Volume 175 – No. 32, November 2020
- 24) M.Samir Modabbes, Nour Hanifi " **A Proposed Method to Improve Steganography in IPv6 Protocol**" -*Research Journal of Aleppo University*, issue /157/, 2020
- 25)M.Samir Modabbes, Mohamad Amin Zaiat, "**Study the Effect of changing Data Format on the Compression Ratio of Files**"- *Arab University Union Journal*, No. 384, May 2021
- 26) M.Samir Modabbes, Yazan Hadad; "**Design of Micro-strip Array Antenna for 5G Cellular Communications**";"- *Research Journal of Aleppo University*, issue /159/, 2021
- 27)M.Samir Modabbes, Basel Alkhatib, "**Developed Method for Improving the Performance of Fractal Antenna Using Pythagorean Tree Geometry**" - *Research Journal of Aleppo University*, issue /162/, 2021
- 28) M.Samir Modabbes, Rein Shenekji; "**Improving cooperative spectrum sensing in the presence of PUEA in cognitive radio networks using fuzzy inference System**"- *Research Journal of Aleppo University*, issue /162/, 2021
- 29) M.Samir Modabbes, Nour Hanifi " **Improve the Security of Steganography in IPv6 Protocol**" - *Research Journal of Aleppo University*, issue /164/, 2021
- 29) M.Samir Modabbes, Ahmad Malla " **Proposed Tunable Patch Antenna Using PVDF as Substrate**" -*Research Journal of Aleppo University*, issue /164/, 2022
- 30) M.Samir Modabbes, Ahmad Malla" **Beamforming for Patch Antenna Array Using Neural Networks**" -*Research Journal of Baath University*, issue /44/, 2022
- 31) M.Samir Modabbes, Alaa Aldeen Alali, "**Applying Data-Conjugate Method in UFMC System**" - *Research Journal of Aleppo University*, issue /169/, 2022
- 32) M.Samir Modabbes, Amany Al-Amer, "**Hybrid Technology for Enhancement Zigbee Network Performance**" - *Research Journal of Aleppo University*, issue /167/, 2022

VII. Conference papers

- 1) "**Performance Analysis of Shift Keying Modulation in the Presence of Noise**" - 1st International Conference on Information & Communication Technologies from Theory to Applications – ICTTA'04 - Damascus 19-23 April 2004.
- 2) "**A Comparison Study on Impact of Fiber Optic Link Types on Shift Keying Modulated Signals**" -Third Saudi Technical Conference and Exhibition- Riyadh- Saudi Arabia - 11-15 December 2004.

VIII. Thesis supervision:

- 1) "**Design Study of Cellular Communication System using Spread Spectrum (CDMA)**"- Master Thesis by Yousef Salha - Supervised by Prof. A.A.Kayali & Associate Prof.M.S.Modabbes - Uinversity of Aleppo - 2001
- 2) "**Study and Design of Cellular Communication System in Idle and Connect it with Other Cities in the Country Network Using GSM System**"-Master Thesis by Basel Frewi - Supervised by Prof. S.H.Ali; Associate Prof.M.S.Modabbes- Uinversity of Aleppo – 2005
- 3) "**Interference Reduction of Downlink WCDMA System Using Adaptive Techniques**", Master Thesis by Nahed Monajed- Supervised by Associate Prof.M.S.Modabbes- Uinversity of Aleppo – 2012
- 4) "**Performance Enhancement for Secured Electronic Voting System and its Applications**", Master Thesis by Najib Mshati- Supervised by Associate Prof.M.S.Modabbes- Uinversity of Aleppo – 2013

- 5) "**Improving the Detection Process of Mobile Communication Systems using Advanced Mathematical Methods**", Doctoral Thesis by Wadah Malluk- Supervised by Prof.M.S.Modabbes & Prof. Esber Ebrahim - University of Aleppo – 2015
- 6) " **Proposed Method for MANETs Security Enhancement** ", Master Thesis by Motaz Akkad - Supervised by Prof.M.S.Modabbes- University of Aleppo – 2017
- 7) " **Modifying RPL Protocol in Wireless Sensor Networks** ", Master Thesis by Aziz Akkub -Supervised by Prof.M.S.Modabbes- University of Aleppo – 2019
- 8) "**Hybrid Technique to Reduce Intercarrier Interference (ICI) in OFDM System**", Master Thesis by Alaa Aldeen Alali - Supervised by Prof.M.S.Modabbes- University of Aleppo – 2019
- 9) "**Improving the Security in RC4 Algorithm**", Master Thesis by Rimaz Surur - Supervised by Prof.M.S.Modabbes- University of Aleppo – 2020
- 10)"**Improving Lossless Data Compression Ratio**", Master Thesis by Amin Zaiat - Supervised by Prof.M.S.Modabbes- University of Aleppo – 2021
- 11)" **Improving cooperative spectrum sensing in the presence of PUEA in cognitive radio networks**", Master Thesis by Rein Shenekji - Supervised by Prof.M.S.Modabbes- University of Aleppo – 2021
- 12)" **Design of Smart Self Tunable Array Antenna** ", Doctoral Thesis by Ahmad Malla - Supervised by Prof.M.S.Modabbes- University of Aleppo – 2022
- 13)" **Improve the Security of Steganography in IPv6 Protocol** ", Master Thesis by Nour Hanifi- Supervised by Prof.M.S.Modabbes- University of Aleppo – 2022
- 14)"**A Proposed Technique for Improving the Security in Zigbee Networks**", Master Thesis by Amany Al-Amer- Supervised by Prof.M.S.Modabbes- University of Aleppo – 2022

IX. Teaching Courses at Dept. of Communications Engineering – Aleppo University- Syria

- 1) Introduction to Computer
- 2) Electronic Circuits Analysis and Design (II)
- 3) Wireless Communications
- 4) Integrated Circuits Technology
- 5) Communications Engineering
- 6) Modeling & Simulation of Communication Circuits
- 7) Electroacoustics
- 8) Digital Signal Processing
- 9) Digital Communications
- 10)Telephone Switching Systems
- 11) Communications Principles
- 12) Computer Networks
- 13) English Language (I);(II);(III)
- 14)Advanced Computer Networks & Information Security (I)
- 15)Advanced Computer Networks & Information Security (II)
- 16)Advanced Communications Systems (I)
- 17)Advanced Communications Systems (II)
- 18) Supervision and management of various graduate projects and final projects for Diploma; Master and Doctoral degrees in Communications Engineering.

X. Teaching Courses at Al-Baha Private College of Sciences– Saudi Arabia:

- 1) Microcomputer Systems (CE313)
- 2) Computer Architecture (CS339)
- 3) Signal Processing (CE217)

- 4) Electronics I (CE 204)
- 5) Electronics II (CE 218)
- 6) Electrical Circuits II (CE 212)
- 7) Digital Systems and Computers (CE 312)
- 8) Electromagnetics (CE 323)

XI. Teaching Courses at Computer College Qassim University – Saudi Arabia:

- 1) Concepts of Programming Languages (CSC337)
- 2) Computer Graphics Systems (CSC375)
- 3) Introduction to Computer & Programming (CSC101)
- 4) Computer Graphics (CSC276)
- 5) Data Transmission (CEN342)
- 6) Mobile and Wireless Networks (CEN414)

XII. Current Research Interests:

- 1) Analysis and Performance Evaluation of Communication Systems
- 2) Mobile and Wireless Networks
- 3) Network Security

XIII. Research Projects:

- 1) "Developing Cellular Radio Network in Syria using WCDMA technique"- Aleppo University - Syria 1999-2003
- 2) "Performance Analysis of Cellular Systems" - Qassim University - Saudi Arabia - 2009 -2010
- 3) "Wide Wireless LAN at Qassim University Campus " - Qassim University - Saudi Arabia - 2009 -2010
- 4) "Multi Co-channel Interference Analysis & Reduction in Wireless Cellular Networks", Aleppo University - Syria 2011-2012.
- 5) "The Effect of Adjacent Channel Interference Analysis on WCDMA Downlink System using QAM Modulation", Aleppo University - Syria 2014-2015.
- 6) "Co-channel Interference (CCI) Analysis & Reduction in WCDMA Downlink System", Aleppo University - Syria 2014-2015.

XIV. Conferences and Workshops

- 1) 1st International Conference on Information & Communication Technologies from Theory to Applications – ICTTA'04 - Damascus 19-23 April 2004.
- 2) Third Saudi Technical Conference and Exhibition- Riyadh- Saudi Arabia - 11-15 December 2004.
- 3) Workshop on Telecommunications, Science, Technology and Applications, 15sept.1997 - 3 Oct. 1997. International Center for Theoretical Physics. Trieste- Italy.