

Curriculum Vitae

Name: Saleh Suleman Saraireh

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Address: P. O. Box (20), Al-Hussein Bin Talal University, Maan, Jordan.

Personal Data :

Nationality: Jordanian.

Marital Status: Married.

Date of Birth: 29/5/1980.

Education:

- 1- PhD in Electrical Engineering / Communication, The University of Sheffield, Faculty of Engineering, United Kingdom, 2009.

Thesis Title:

"Scalable Block Cipher Design Using Filter Banks over Finite Fields"

- 2- M.Sc. in Communication Engineering, Mutah University, Jordan, 2006 with Accumulative Average (Excellent).

Dissertation Title:

"Design and Performance Analysis of Multirate Digital Filter Banks for Application in Communications"

- 3- B.Sc. in Communication Engineering, Mutah University, Jordan 2003 with Accumulative Average (Very Good).

- 4- Scientific Secondary School (Tawjihi), Jafer Bin Abi Taleb Secondary School, Jordan 1998 with Accumulative Average (Excellent).

Experience:

4/2/2020 – Present : Professor in Communication Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Maan, Jordan.

17/9/2017 – 3/2/2020 : Associate Professor in Communication Engineering Department, Faculty of Engineering, Al-Hussein Bin Talal University, Maan, Jordan.

1/9/2014 – 31/8/2017: Head of the Department of Communication and Electronic Engineering, Faculty of Engineering, Philadelphia University, Amman,

2/12/2014 – 31/8/2017: Associate Professor in Communication and Electronic Engineering Department, Faculty of Engineering, Philadelphia University, Amman, Jordan.

1/9/2009 – 1/12/2014: Assistant Professor in Communication and Electronic Engineering Department, Faculty of Engineering, Philadelphia University, Amman, Jordan. Teaching the following courses

Courses:

- 1) Networks and Systems Security (Msc Program).
- 2) Communication Systems.
- 3) Analog Communication.
- 4) Communication (I)
- 5) Digital Communication.
- 6) Communication Circuits.
- 7) Electromagnetic (I).
- 8) Electromagnetic (II).
- 9) Control Systems.
- 10) Signals and Systems.
- 11) Network Analysis and Synthesis.
- 12) Digital Signal Processing.
- 13) Engineering Analysis (1)
- 14) Digital Communication Lab.
- 15) Analog Communication Lab.
- 16) Electronics Lab.

2012 – 2015: Part time lecturer in Jordan University, Amman, Jordan

Courses:

- 1) Numerical Methods for Engineering.
- 2) Signal and Systems.
- 3) Measurements and Instrumentations.
- 4) Selected topic in Communication/ Information Security.

2010 – 2012: Part time lecturer in German Jordan University, Amman, Jordan

Courses:

- 1) Electromagnetic.
- 2) Electric Circuit (II).
- 3) Power Electronics.

2006 – 2009: Lab and Tutorial demonstrator, University of Sheffield, United Kingdom.

Courses:

- 1) Signals and Systems.
- 2) Electronics.
- 3) Electrical Circuits.
- 4) Matlab.

2004 - 2006 : Communication Engineer, Jordan Television, Maan, Jordan.

2003 – 2004 : Training in Jordan Telecom Group as a Communication Engineer, Karak, Jordan.

6/2002 – 8/2002: Training in Jordan Telecom Group, Karak, Jordan.

Publications:

Saleh Saraireh and Mohammad Saraireh” *Fuzzy Based System For Assessing And Enhancing Qos For Wireless Networks” International Journal of Scientific & Technology Research*, Vol (9), no. (9), pp. 57 – 61, 2020.

Mohammad Saraireh and **Saleh Saraireh**”*A Novel Collision Ratio Based Scheme For Improving The Performance Of Wireless Network” International Journal of Scientific & Technology Research*, Vol (9), no. (9), pp. 267 – 273, 2020.

Saleh Saraireh, *"Providing confidentiality, data integrity and authentication of transmitted information," ARPJ Journal of Engineering and Applied Sciences*, Vol. 14, No. 1, 2019.

Saleh Saraireh, Jaafer Al-Saraireh, Mohammad Saraireh, *“Integration of Hash - Crypto- Steganography for Efficient Security Technique”*, International Journal of Circuits, Systems and Signal Processing, Vol. (12), pp. 274-278, 2018.

Saleh Saraireh, J AL-Saraireh, Y Al-sbou, M Saraireh, "A *HYBRID TEXT - IMAGE SECURITY TECHNIQUE*", Journal of Theoretical and Applied Information Technology Vol. 96, no. (9), pp. 2414 – 2422, 2018.

Saleh Saraireh and Mohammad Saraireh, "Filter Bank Block Cipher and LSB Based Steganography for Secure Data Exchange", International Journal on Communications Antenna and Propagation (*IRECAP*), Vol. (7), No. (1), pp. 1-7, 2017

Saleh Saraireh, "Lifting Based S-Box for Scalable Block Cipher Design Based on Filter Banks" *Jordan Journal of Electrical Engineering (JJEE)*, Vol. (3), No. (2), pp. 150 – 158, 2017.

Othman Alsmadi, Zaer Abo-Hammour, Dia Abu-Al-Nadi, **Saleh Saraireh**, "Soft Computing Techniques for Reduced Order Modelling: Review and Application" *Intelligent Automation and Soft Computing*, vol 21, pp, 1-18, 2015.

Ja'afar Al-Saraireh, **Saleh Saraireh**, Mohammad Saraireh, "A Novel Adaptive Contention Window and Distributed Inter Frame Space for IEEE 802.11" *International Review on Computers and Software (IRECOS)*, vol. 10, no. 4, pp. 407-414, 2015.

Qadri Hamarsheh, Omar Daoud, and **Saleh Saraireh**, "Large power peaks detection based on Wavelet Transform" *International Journal of interactive Mobile Technologies*, vol. 8, no. 4, pp. 14-19, Oct. 2014.

Omar Daoud, Qadri J. Hamarsheh and **Saleh S. Saraireh** "Peak Detection Using Wavelet Transform " *International Journal of Computer Networks & Communications (IJCNC)*, Vol.6, No.4, May 2014.

Jaafar AL-Sariereh, **Saleh Saraireh**, Mohammad Saraireh and Mohammad bni Yonis, " Adaptive Inter Frame Space for Service IEEE 802.11 MAC Protocol", *Communications and Network*, Vol. (6), No. (3), 2014.

Jaafar AL-Sariereh, Mohammad Saraireh and **Saleh Saraireh**, " A Novel Adaptive Contention Window Scheme for IEEE 802.11 MAC Protocol", *Trends in Applied Sciences Research*, Vol. (9), No. (5), 2014.

O. Daoud, Q. Hamarsheh, and **S. Saraireh**, "PAPR Reduction Based on Entropy Wavelet Transform for Sniffer Mobile Robot," *International Journal of Electronics and Communications- AEÜ*, vol. 68, no. 12, pp. 1165-1172, 2014.

Othman Alsmadi, **Saleh Saraireh**, Zaer Abo-Hammour and Ali Al-Marzouq "Substructure Preservation Sylvester-Based MOR with Application to Power Systems" *Electric Power Components and Systems*, Vol. (42), No. (9), 2014 .

Saleh Saraireh, Yazeed Al-sbou, Ja'afar Al-saraireh and Othman Alsmadi, "Image Encryption Scheme Based on Filter Bank and Lifting" *International*

Journal of Communications, Network and System Sciences (IJCNS,) Vol. (7), No. (1), 2014.

Saleh Saraireh, Mohammad Saraireh and Yazeed Alsbou "*Secure Image Encryption Using Filter Bank and Addition Modulo 2^8 with XOR Combination*" *International Journal of Computer Science and Security (IJCSS)*, Vol. (7), No. (2), 2013.

Saleh Saraireh "*A Secure Data Communication System Using Crptography and Steganography*" *International Journal of Computer Networks & Communications (IJCNC)* Vol.5, No.3, 2013.

Saleh S. Saraireh, Qadri J. Hamarsheh and Omar Daoud" *OFDM Peak Detection Algorithm based on Wavelet Transform*" *European Journal of Scientific Research (EJSR)*, Vol. 101 No 2, 2013.

Ja'afar Alsaraireh, Mohammad Saraireh,**Saleh Saraireh** and Mohammed Alnabhan , "*Formal Analysis of A Novel Mutual Authentication and Key Agreement Protocol*" *Journal of Computer Science & Technology*, Vol. 11 - No. 2, 2011.

S. Saraireh, M. Benaissa, "A Scalable Block Cipher Design using Filter Banks over Finite Fields" In *Acoustics Speech and Signal Processing (ICASSP), 2010 IEEE International Conference*, Dallas, TX, USA.

S. Saraireh, M. Benaissa, "A Scalable Block Cipher Design using Filter Banks and Lifting over Finite Fields" In *IEEE International Conference on Communications (ICC)*, Dresden, Germany, 2009.

Granted Projects, Awards and Fellowships

- International Credit Mobility at Staffordshire University, Erasmus+, 2020.
- Capacity Building for Higher Education, Erasmus+, Introducing Recent Electrical Engineering Development for Undergraduate Curriculum (IREEDER), Co - Investigator, Grant Amount \$840 K. 2019.
- Ph.D. Scholarship from Philadelphia University, Jordan, 2006.
- Msc Scholaship from Emmar Al - karak Corporation, 2003.
- Bsc Scholarship from Ministry of Higher Education, Jordan, 1998.

Conferences, Symposiums, Seminars & Workshops:

Participation in More than 10 Conferences, Symposiums, Seminars & Workshops.

Cultural, and Academic activities

- 1- Member in Communication Engineering Department in AL-Hussien Bin Talal University.
- 2- ABET Accreditation Coordination Committee Chair, Department of Communication and Electronic Engineering, Philadelphia University, 2017.

- 3- External Examiner for many master theses.
- 4- Reviewer for many international journals.
- 5- Reviewer for many international conferences.
- 6- Member in IEEE.
- 7- Member in Jordan Engineers Association.