

## **Curriculum Vitae**

**Name:** Saleh Suleman Saraireh

**Cellular Phone:** (+962-779-741368).

**E-Mail:** saleh\_53@yahoo.com.

**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:**

Ali Al-Khawaldeh and **Saleh Saraireh**, “Multi-parallel Processing based OFDM for Combatting PAPR”, 20th International Multi-Conference on Systems, Signals and Devices (SSD’23) February 20–23, 2023, Mahdia, Tunisia

**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," *ARPN 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 detectionbased 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.

Jaafer 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.

Jaafer 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 Alsobou "*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'afer 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.

### **Master Thesis Supervision**

- Manar Mustafa Aldasee, "Enhancement of Security Services for WSN", 2020.
- Abdullah Ali Marzouq Abushattal, "Quality of Service Evaluation for Fifth Generation of Mobile Communication"2023

## **Conferences, Symposiums, Seminars & Workshops:**

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

## **Cultural, and Academic activities**

- 1- Member in Al – Hussien bin Talal University Council (2022 - 2023)
- 2- Member in Communication Engineering Department in AL-Hussien Bin Talal University.
- 3- ABET Accreditation Coordination Committee Chair, Department of Communication and Electronic Engineering, Philadelphia University, 2017.
- 4- Member of the Quality Assurance Expert Committee, Faculty of Engineering, Al – Balqa Applied University, 2021.
- 5- Accreditation Committee Member, Electrical Engineering
- 6- Editorial Board Member in Jordan Journal of Electrical Engineering, 2021 until now.
- 7- Member of the Faculty of Engineering Council, 2020 - 2021
- 8- Member in Postgraduate Committee of the Faculty of Engineering 2020 until now.
- 9- Member in Postgraduate Committee in the Department of Computer Engineering 2020 until now.
- 10- Chairman of the Department Quality Assurance Committee, Department of Communication Engineering.
- 11- Member in Faculty of Engineering Quality Assurance Committee.
- 12- Internal Examiner for many master theses.
- 13- External Examiner for many master theses.
- 14- Reviewer for many international journals.
- 15- Reviewer for National Technology Parade.
- 16- Reviewer for many international conferences.
- 17- Member in IEEE.
- 18- Member in Jordan Engineers Association.