



CURRICULUM VITA

Dr. Wael Al-Sawalmeh

PERSONAL INFORMATION

Name: Wael Hassan Mohammad Al-Sawalmeh
Marital Status: Married, six Children
Nationality: Jordanian
Date of Birth: 22th March 1968

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Residence:

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QUALIFICATIONS

- PhD.,Electrical Engineering / Communication:** (Oct..1994 – June 1998),Sankt-Petersburg State University of telecommunications ,Russia.
The PhD. Theses on: " Working- out and Investigation of Checking method of Color production with help of Sensors Based on LEDs and fiber optics ".
- M.Sc. and B.Sc., Electrical Engineering:** (Sep.1988 – June 1993),The leneingrad Electro technical Institute of communications named after Bonch -Bruyevitch ,Russia.
The Diploma Theses on : " Color Decoder Block Standard PAL-B/G of Television Receiver for Jordan ".

PROFESSIONAL EXPERIENCE

- **Al-Hussein Bin Talal University:**

As a faculty member

(JORDAN: Sep.2018 - Present)

- **Al- Tafila Technical University / Faculty of Engineering:**

As a faculty member (Sabbatical leave)

(JORDAN: Sep. 2017 - Sep.2018)

- **Al-Hussein Bin Talal University:**

As a faculty member

(JORDAN: Jan.2011- Sep. 2017)

- **Philadelphia University:**

As a faculty member

(JORDAN: Sep.2004- Jan. 2011)

- **Applied Science University:**

As a faculty member

(JORDAN: Sep.2002 - Sep. 2004)

- **University of Omar Almouktar:**

As a faculty member

(LIBYA: Nov.1998 - Sep. 2002)

- **Higher Institute of Comprehensive Vocational:**

Part time lecturer

(LIBYA: Sep.2001 - Sep. 2002)

- **Shahat Computer Center:**

Part time lecturer

(LIBYA: Oct.2001 - Sep. 2002)

- **Management experience**

(Web Site: <http://www.ahu.edu.jo>)

1. Vice Dean of the Faculty of Engineering for Academic Affairs.

(Nov.2018 – Dec.2020).

2. Vice Dean of Higher Studies.

(Sep.2016 – Sep.2017).

3. Chairman of the Communication Engineering Department.

(Sep.2011- Sep.2015).

4. Chairman of the Electrical Engineering Department.

(Sep.2013- Sep.2015).

- **Academic Rank:**

Full Professor :

24 March 2022

Associate Professor:

30 Jun.. 2013 – 23 March 2022

Assistant Professor:

Sep. 2002- 29 Jun. 2013

PUBLICATIONS

1. **Wael Hassan Al-Sawalmeh**, "Detecting Colour Sensor", 5th international Saint-Petersburg video conference-Sep.1996, P.57.
2. **Wael Hassan Al-Sawalmeh**, "Coloured Sensors using LEDs, 5th scientific and technical conference for modern television-Moscow, 1997, P.21.
3. **Wael Hassan Al-Sawalmeh**, "Sensors for checking and sorting items by colour sensor, using LEDs ", 5th scientific and technical conference for modern television-Moscow 1997, P.22.
4. **Wael Hassan Al-Sawalmeh**, "Investigation of optical system of colour detecting sensor", 5th international Saint-Petersburg videoconference -Sep.1996, P.57.
5. Mikhled Alfaouri Khaled Daqrouq, Ibrahim N. Abu-Isbeih, Emad F.Khalaf, Abdel-Rahman Al-Qawasmi, and **Wael Al-Sawalmeh** "Quality Evaluation of Reconstructed Biological Signals", American Journal of Applied Sciences, 6(1) 187-193, 2009, USA. ISSN 1546-9239.
6. Hillal Hillal and **Wael Hassan Al-Sawalmeh** "Implementation of RF Class-E Power Amplifier", Journal of engineering and development, Aleppo University Engineering Sciences Series, No: 50, P.39-44, 2006.
7. **Wael Al-Sawalmeh**, Khaled Daqrouq, Abdel-Rahman Al-Qawasmi and Tariq Abu Hillal "The Use of Wavelets in Speaker Feature Tracking Identification System Using Neural Network" WSEAS Transactions on Signal Processing, Issue 5, Volume 5, P.167-177, 2009.
8. Muzhir Shaban Al-Ani and **Wael Al-Sawalmeh** "Simulation and Proposed Handover Alert Algorithm for Mobile Communication System", International Journal of Interactive Mobile Technologies, Special Issue 2, Volume 3, P.6-11, 2009.
9. **Wael Hassan Al-Sawalmeh** and Muzhir Shaban Al-Ani, "Signal Strength Measurements in GSM ", Asian International Journal of Information Technology, No: 11, P.1076-1080, 2004.
10. **Wael Al-Sawalmeh**, Khaled Daqrouq, Omar Daoud, Abdel-Rahman Al-Qawasmi "Speaker Identification System-based Mel Frequency and Wavelet Transform using Neural Network Classifier", European Journal of Scientific Research, ISSN 1450-216X Vol.41 No.4 (2010), pp.515-525.
11. Khaled Daqrouq, **Wael Al-Sawalmeh**, Abdel-Rahman Al-Qawasmi and Ibrahim N. Abu-Isbeih "Speaker Identification Wavelet Transform Based Method", 5th International Multi-Conference on Systems, Signals and Devices, 2008. IEEE SSD 2008, Philadelphia University, Jordan ISBN:978-1-4244-2205-0.
12. **Wael Al-Sawalmeh**, Khaled Daqrouq and Abdel-Rahman Al-Qawasmi " Multistage Speaker Feature Tracking Identification System Based on Continuous and Discrete Wavelet Transform", The 9th WSEAS International Conference on ROBOTICS, CONTROL and MANUFACTURING TECHNOLOGY (ROCOM '09).
13. Khaled Daqrouq, Abdel-Rahman Al-Qawasmi, **Wael Al-Sawalmeh** and Tariq Abu Hillal " Wavelet Transform Based Multistage Speaker Feature Tracking Identification System Using Linear Prediction Coefficient", IEEE 2009 International Conference on

Advances in Computational Tools for Engineering Applications ,Notre Dame University, Louaize, Lebanon,P.173-179.

14. **Wael Al-Sawalmeh**, Khaled Daqrouq and Omar Daoud " Wavelet Entropy and Proprbalistic Neural Network for Arabic Vowels Recognition Using "The 7th Jordanian International Electrical & Electronics Engineering Conference,(JIEEEEC, 2010).
15. Omar Daoud, Ahlam Damati and **Wael Al-Sawalmeh**" Enhancing the MIMO- OFDM Radar Systems Performance Using GA" IEEE SSD 2010, Philadelphia University, Jordan.
16. **Wael Al-Sawalmeh**, Khaled Daqrouq and Omar Daoud "The Use of Wavelets Entropy in Conjunction with Neural Network for Arabic Vowels Recognition" WSEAS Transactions on Signal Processing, Issue 3, Volume 7, P.75-84, July 2011.
17. Khaled Daqrouq, Abdel-Rahman Al-Qawasmi, Omar Daoud and **Wael Al- Sawalmeh** " Self-Organizing Map Weights and Wavelet Packet Entropy for Speaker Verification " INTERNATIONAL JOURNAL OF CIRCUITS, SYSTEMS AND SIGNAL PROCESSING, Issue 1, Volume 6,P.12-20, February 2012.
18. Omar R. Daoud, Qadri J. Hamarsheh, and **Wael H. Al-Sawalmeh** " Speaker Verification over MIMO-OFDM Systems based on Artificial Intelligence Techniques " INTERNATIONAL JOURNAL OF COMPUTERS AND COMMUNICATIONS, Issue 4, Volume 6, 2012. P. 191 – 201.
19. Omar R. Daoud, Qadri J. Hamarsheh, and **Wael H. Al-Sawalmeh**" MIMO- OFDM Systems Performance Enhancement Based on Peak Detection Algorithm "International Journal of Interactive Mobile Technologies, Issue 3, Volume 7, 2013. P. 4 – 8.
20. Omar Daoud, Ahlam Damati and **Wael Al-Sawalmeh**" Enhancing the MIMO-OFDM Radar Systems Performance Using GA" Transactions on systems, Signals & Devices, Vol. 7, No. 3, 2012. P.1-11.
21. Omar R. Daoud, Qadri J. Hamarsheh, and **Wael H. Al-Sawalmeh**" Enhancing the BER of MIMO-OFDM Systems for Speaker Verification" 10th International Multi-Conference on Systems, Signals and Devices, IEEE SSD 2013,Hammamet,Tunisa, ISBN: 978-1-4673-6459-1
22. Wael Abu Shehab, Ghadeer Al-Shabaan, and **Wael Al-Sawalmeh** "RFID-Based Inventory and Security System "Innovative Systems Design and Engineering , Vol.6, No.10, 2015. P.53-58.
23. Al-Shabaan, G.N.; **Al-Sawalmeh, W.**; Abu Shehab, W.; Abu-Al-Aish, A.; Al-Shaweesh, M. "Effect of dust grain and density on the Monocrystalline PV output power system "International Journal of applied science and technology , Vol.6, No.1, 2016. P. 1-7.
24. Saud Althunibat, Amir Abu-Al-Aish, Wael F.Abu Shehab, **Wael H. Alsawalmeh**"Auction-Based Data Gathering Scheme for Wireless Sensor Networks " IEEE Communications Letters, Vol.20, No.6, june2016 , P. 1223-1226.
25. Mohd H.S Alrashdan, Abed-Al-Rahman M.S Al-sharqi, **Wael H AL-Sawalmeh** and Mohammad Ibrahim ALsharari, Haitham A.M.Alashaa'ry " Multi-Variables, Single Objective Optimal Power Flow of IEEE-14 Bus System Using Artificial Bee Colony Algorithms " International Journal of Smart Grid and Clean Energy ISSN 2315-4462,Volume 9, no.6, November (2020) pp. 958-966.

26. **Wael Al-Sawalmeh**, Zouhair Al-qudah, Khalid A. Darabkh," Multiple access relay channel: Achievable rates over orthogonal channels "International Journal of Electronics and Communications (AEÜ), 109 (2019) 121–127.
27. **Wael H Al-Sawalmeh**, Mohd H.S Alrashdan, Ghadeer Al-Shabaan, Wael Abu Shehab, Mohammad Ibrahim Alsharari," The influence of Dust Density and its Grain Size on The Polycrystalline PV Panel Electric Power Production", International Conference on Power Control and Embedded System (ICPCES) Florence , Italy 19th-20th April, 2019 .
28. **Wael H AL-Sawalmeh**, Mohd H.S Alrashdan , Haitham A.M.Alashaa'rye "Experimental Monitoring System Using Arduino Microcontroller in Studying The Effect of Temperature and Light Intensity of Solar Cell Output Power in Ma'an Development Area", International Journal of Smart Grid and Clean Energy ISSN 2315-4462 .Vol.10, No.2,2021.
29. Amir Abu_Al_Aish, Wael Salah, Mohammad Ahmed, Mohd.Alrashdan, **Wael AL-Sawalmeh** "Implementation of Contactless Angular Speed Measurement Based on Photo Sensor ", Przegląd Elektrotechniczny, ISSN 0033-2097, R.97 NR 3/2021.
30. **Wael H Al-Sawalmeh**, Mohd HS Alrashdan, Mahmoud A Alnaanah, Haitham AM Alasha'ary, K Daqrouq" Study of the Effects of Control Factors on Speech Features Using Taguchi Method ",International Review of Electrical Engineering , ISSN 1827-6660 , Vol. 17, No. 1,2022.
31. Wael Abu Shehab, Ahmad Salah, **Wael Al-Sawalmeh**, Haitham Alashaar" Few-mode optical fiber surface plasmon resonance sensor with controllable range of measured refractive index", International Journal of Electrical & Computer Engineering, ISSN 2088-8708, Vol.13, No.1, 2023.

CONFERENCES

1. International Conference on Power Control and Embedded System (ICPCES), Florence, Italy, 19th-20th April, 2019. .
2. 5th International Multi-Conference on Systems, Signals and Devices, 2008. IEEE SSD 2008, Philadelphia University, Jordan.
3. Fifth National Technology Parade, 2012 .Hosted by The Hashemite University.

TRAINING COURSES ATTENDED

1. ICDL Course (100 Hours).2019, Muta University,Karak, Jordan.

COMMITTEES

1. Member of student committee.
2. IEEE member ship..

COURSES TAUGHT

1. Engineering Drawing
2. Transmission Communication Systems
3. Analog Communications
4. Electrical Circuits
5. Measurements.
6. Microwave Engineering
7. Television Engineering
8. Logic Circuit Design
9. Engineering Mathematics
10. Digital Communications
11. Microwave Lab.
12. Electrical Circuits Lab.
13. Analog Communications Lab.
14. Measurements Lab.
15. Logic Circuit Design Lab.
16. Digital Communications Lab.
17. Control Lab.
18. Projects and Training Supervision

LANGUAGES

Arabic: Mother Tongue.

English: Reading, Writing and Conversation (good).

Russian: Reading, Writing and Conversation (good).

AWARDS & MERITS

- Winner of Engineering Association Prize for Engineering Graduation Projects / 2006.
- Winner of Prize of Fifth National Technology Pared 2012.