



## Curriculum Vitae

Name. *Dr. Wael Al-Sawalmeh*

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### Personal Data:

- **Nationality:** Jordanian
- **Date of Birth:** 22/3/1968
- **Marital status:** Married

### Specialization:

- Electrical Engineering /Communications & Electronics.

### Academic Rank:

- **Dec.2012- Present** Associate Professor.
- **Sep.2002- Dec.2012** Assistant Professor.

### Management experience:

- Head of Communication Engineering Department (from Sep.2011- to present).
- Head of Electrical Engineering Department (from Sep.2013- to present).
- Establish and update the curriculum.
- Member of student committee.
- Department quality assurance officer.
- IEEE member ship.

### Education:

- **PhD.** Electrical Engineering – Communication – TV. / University of Telecommunication (Saint-Petersburg State-Russia), 1998.  
**Title:** (*Working- out and Investigation of Checking method of Color production with help of Sensors Based on LEDs and fiber optics*)
- **M.A (M. Sc.).** Electrical Engineering / Electro technical Institute of Communication Leningrad Bonch-Bruyevitch (Leningrad -Russia) ,1993  
**Title:** (*Color Decoder Block Standard PAL-B/G of Television Receiver*)

## **Experience:**

- **Jun.2011- Present** - Al- Hussein Bin Talal University
- **Sep.2004- Jun.2011** - Philadelphia University Amman-Jordan
- **Sep.2002- Jul.2004** - Applied Science University Amman-Jordan
- **Nov.1998-Jul. 2002** - University of Omar Almouktar -Libya
- **Sep.2001-Jul.2002** -Part time lecturer at the higher institute of comprehensive vocational.
- **Oct.2001-Jul.2002** - Part time lecturer at the shahat computer center

## **Taught Subjects:**

- Transmission Communication Systems
- Analog Communications
- Electrical Circuits
- Measurement
- Microwave Engineering
- VLSI Design
- Television Engineering
- Logic Design
- Engineering Analysis (1)
- Digital Communications

## **Publications, Conferences, Symposiums:**

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-Moscow1997, 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 7<sup>th</sup> 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, Tunisia, ISBN: 978-1-4673-6459-1

### **Awards & Merits:**

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