Curriculum Vitae: *Dr. Emad H. Salman*

Personal Information

Academic degree:	**Lecturer Dr.**
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Biography

Emad H. Salman received B.Sc. certification in Electrical Engineering Dept. / College of Engineering / University of Baghdad, Iraq, 2003. Then, he received M.Sc. certification in Electrical Engineering Dept. / Electronics and Communications Engineering Field / College of Engineering / University of Baghdad, 2006. He also received a Ph.D. certification in Computer and Communication System Engineering Dept. / Wireless Communications Engineering Field / Faculty of Engineering / Universiti Putra Malaysia, Malaysia, 2019. Since 2007, he has worked as a lecturer in College of Engineering / University of Diyala, Diyala, Iraq. He has taught most subjects for all years in the field of Electrical, Communications, Electronics, Mathematics and Computer Engineering. His main research interests are IoT, Cryptography, Cognitive Radio Networks, 3-6G standards, OFDM, LTE, MIMO and their schemes, THz, mmWave, VLC, and Machine Learning. He has an IEEE Membership, then become a Senior Member, in 2014 and 2018, respectively. As a researcher, he has been publishing and reviewing many articles for different journals and conferences that are indexed in the SCOPUS, Clarivate, and SpringerNature indexes.

Educational Qualifications

- **Ph.D.** in Wireless Communications Eng. - 2019 – Universiti Putra Malaysia (UPM) – Selangor - Malaysia.
- **M.Sc.** in Electrical Eng.\Electronics & Communications Eng. - 2006 - University of Baghdad - Baghdad - Iraq.
- **B.Sc.** in Electrical Eng. - 2003 - University of Baghdad – Baghdad - Iraq.

Memberships and Academic positions

- Member of Communication Engineering Staff since 2007 till now.

- Deputy chair of scientific affair department for scientific conferences and activities – presidency of university of Diyala (2022-2023).
- Senior Member of IEEE since 2014 till now.

Supervision of Theses and dissertations   `

1. Co-Supervisor for one PhD student with UPM.

2. Supervisor for four MSc students with IUL.

3. Supervising the graduation projects of the fourth stage in the Department of Communication Engineering

   - College of Engineering - University of Diyala – Iraq – since 2009 till now.

Languages   .

- English: Speaking and Writing (Excellent)
- Malay: Speaking and Writing (Good)
- Arabic: Mother tongue.

Reviewer and referee

Reviewer and referee in:

1. Local Journals and Conferences of Engineering Sciences.
2. International Journals and Conferences that are indexed by SCOPUS and Clarivate.

Published Research Papers   _   .

LIST OF PUBLISHED RESEARCH PAPERS
A- INTERNATIONAL JOURNALS:
1. Salman, Emad Hmood, Montadar Abas Taher, Yousif I. Hammadi, Omar Abdulkareem Mahmood, Ammar Muthanna, and Andrey Koucheryavy. "An Anomaly Intrusion Detection for High-Density Internet of Things Wireless Communication Network Based Deep Learning Algorithms." Sensors 23, no. 1 (2022): 206. SCOPUS (Q1) / Clarivate (Q1). https://www.mdpi.com/1424-8220/23/1/206
2. Algriree, Waleed, Nasri Sulaiman, Maryam Isa, Ratna KZ Sahbudin, Siti LM Hassan, Emad Hmood Salman, and Mokhalad Alghrairi. "An analysis of low complexity of 5G-MIMO communication system based CR using hybrid filter detection." Alexandria Engineering Journal 65 (2023): 627-648. SCOPUS (Q1) / Clarivate (Q1). https://www.sciencedirect.com/science/article/pii/S1110016822007062
3. Algriree, Waleed, Nasri Sulaiman, Maryam M. Isa, Ratna KZ Sahbudin, Siti LM Hassan, and Emad Hmood Salman. "An analysis of 5G-MIMO communication system based SS for centralized cooperative and non-cooperative users." Egyptian Informatics Journal 24, no. 2 (2023): 161-172. SCOPUS (Q1) / Clarivate (Q2). https://www.sciencedirect.com/science/article/pii/S1110866523000130

4.	Algriree, Waleed, Nasri Sulaiman, Maryam Isa, Ratna KZ Sahbudin, Siti LM Hassan, Emad Hmood Salman, and Mokhalad Alghrairi. "A CR-5G network based on multi-user for various waveforms detection." Egyptian Informatics Journal (2022). SCOPUS (Q1) / Clarivate (Q2). https://www.sciencedirect.com/science/article/pii/S1110866522000329
5.	Algriree, Waleed, Nasri Sulaiman, Maryam M. Isa, Ratna KZ Sahbudin, Siti LM Hassan, and Emad Hmood Salman. "On the Performance of Various 5G Signals Sensing Based on Hybrid Filter." International Journal of Wireless Information Networks 30, no. 1 (2023): 42-57. SCOPUS (Q2) / Clarivate (Q4). https://link.springer.com/article/10.1007/s10776-022-00589-0
6.	E. H. Salman, N. K. Noordin, S. J. Hashim, F. Hashim, and C. K. Ng, "An overview of spectrum sensing techniques for cognitive LTE and LTE-A radio systems," Telecommunication Systems, pp. 1-14, 2016. SCOPUS/Clarivate(ISI)-Q3. https://link.springer.com/article/10.1007/s11235-016-0221-z
7.	Salman, Emad H., Nor K. Noordin, Shaiful J. Hashim, Fazirulhisyam Hashim, and Chee K. Ng. "An Analysis of Periodogram Based on a Discrete Cosine Transform for Spectrum Sensing." Wireless Personal Communications 101, no. 3 (2018): 1261-1279. SCOPUS/Clarivate (ISI)-Q3 https://link.springer.com/article/10.1007/s11277-018-5761-y
8.	Montadar Abas Taher, Mohammad Z. Ahmed, Emad Hmood Salman. "Compressive Spectrum Sensing Using Two-Stage Scheme for Cognitive Radio Networks." International Journal of Electrical and Computer Engineering (IJECE) Vol. 10, No. 6, December 2020, pp. 5899~5908. SCOPUS-Q2 http://ijece.iaescore.com/index.php/IJECE/article/view/21349
9.	Algriree, Waleed, Nasri Sulaiman, Maryam Isa, Ratna Kalos Zakiah Sahbudin, Siti Lailatul Mohd Hassan, and Emad Hmood Salman. "The impact of M-ary rates on various quadrature amplitude modulation detection." International Journal of Electrical & Computer Engineering (2088-8708) 13, no. 1 (2023). SCOPUS-Q2. https://ijece.iaescore.com/index.php/IJECE/article/view/26881
	B- INTERNATIONAL CONFERENCES:
10.	Salman, Emad Hmood, Iman Ahmed Zayer, and Shayma Naif Hassan. "A Comparative Study of Algorithms of Software Effort Estimation for the Robotic and Communication Systems Based on Improved Accuracy." In 2021 7th International Conference on Contemporary Information Technology and Mathematics (ICCITM), pp. 58-62. IEEE, 2021. https://ieeexplore.ieee.org/abstract/document/9677874
11.	Alghrairi, Waleed, Nasri Sulaiman, Maryam M. Isa, Ratna KZ Sahbudin, Siti Lailatul M. Hassan, and Emad Hmood Salman. "A 5G Waveforms Detection based-Windowed Cosine-Hamming Filter." In 2021 International Conference on Advance of Sustainable Engineering and its Application (ICASEA), pp. 219-224. IEEE, 2021. https://ieeexplore.ieee.org/abstract/document/9733083
12.	Emad H. Salman, N. K. Noordin, S. J. Hashim, F. Hashim, and C. K. Ng, "A performance analysis of a new periodogram for spectrum sensing," in International Conference on Advances in Electrical, Electronic and Systems Engineering (ICAEES) 2016, Kuala Lumpur, Malaysia, 2016, pp. 592-596. https://ieeexplore.ieee.org/abstract/document/7888115
13.	Emad H. Salman, N. K. Noordin, S. J. Hashim, and F. Hashim, "A new cooperative spectrum sensing scheme based on discrete cosine transform," in IEEE 3rd International Symposium on Telecommunication Technologies (ISTT) 2016, Kuala Lumpur, Malaysia, 2016, pp. 108-111. https://ieeexplore.ieee.org/abstract/document/7918094

14. Salman, Emad Hmood, Yassir Al-Karawi, Abdulmunem Ahmed, Montadar Abas Taher, Nor Kamariah Nordin, Shaiful Hashim, and Fazirulhisyam Hashim. "On the energy detection performance based Welch's DCT algorithm in cognitive radio systems." In Engineering Sciences-3rd Scientific Conference of Engineering Science (ISCES), 2018 1st International Scientific Conference of, pp. 135-139. IEEE, 2018.
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15. Ali, Mustafa Mahdi, Mokhalad Khaleel Alghrairi, and Emad Hmood Salman. "LTE Signal Detection Using Two-Stage Cooperative Compressive Sensing System." In 2018 Al-Mansour International Conference on New Trends in Computing, Communication, and Information Technology (NTCCIT), pp. 23-28. IEEE, 2018.
https://ieeexplore.ieee.org/abstract/document/8681191

16. Alshamary, Haider Ali Jasim, Emad Hmood Salman, and Yousif Allbadi. "Data Disseminated Energy-Efficient Clustering Algorithm For Avoid Load and Bandwidth Consumption In WSN Integrated IoT Platform." In IOP Conference Series: Materials Science and Engineering, vol. 1076, no. 1, p. 012062. IOP Publishing, 2021.
https://iopscience.iop.org/article/10.1088/1757-899X/1076/1/012062/pdf

17. Emad Hmood Salman, Compressing and Ciphering Digital Signal by Using Wavelet Transform, 11th Scientific Conference 19-20 Nov.2011, Baghdad, Iraq, AL-Mansour Journal, Vol. 17, Issue: special issue, pp: 167 – 183.
https://www.iasj.net/iasj?func=article&aId=34613

C- LOCAL JOURNALS

18. Emad Hmood Salman, FAST CONVOLUTION AND CORRELATION ALGORITHM FOR MULTIDIMENSIONAL SIGNALS, Diyala Journal of Engineering Science, Vol. 6, Issue 1, pp. 75 – 89, 2013.
https://www.iasj.net/iasj?func=article&aId=71718

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