Electrical Engineering Department College of Engineering/King Khalid University

2020 journals ==========

1.   AHMED, Sabah M., et al. Detection of Primary User in Wide-band Cognitive Radio Networksover Fading Channel using Compressed Sensing. Menoufia Journal of Electronic EngineeringResearch, 2020, 29.1: 31-38.

2.   S Hussein, Hany, Mohamed Hagag, and Mohammed Farrag. "Extended Spatial-Index LEDModulation for Optical MIMO-OFDM Wireless Communication." Electronics 9.1 (2020): 168.

3.   M. Z. Shamim, M. Zaidi, S. Persheyev, M. Usman, M. Shiblee, & S. J. Ali, "Micro-nano fabrication of self-aligned silicon electron field emitter arrays using pulsed KrF laser irradiation", Integrated Ferroelectrics, An International Journal, Taylor and Francis, vol. 204, issue 1, pp. 47-57, January 2020

4.   M. Z. Shamim, M. Zaidi, S. Persheyev, M. Usman, M. Shiblee, & S. J. Ali, "Synthesis of lithography-free micro-nano electron field emitters using pulsed KrF laser assisted metal induced crystallization of thin silicon films", Integrated Ferroelectrics, An International Journal, Taylor and Francis, vol. 204, issue 1, pp. 121-132, January 2020

5.   Abdul Sathar, A., Muneer, P., Thafasal Ijyas, V.P. et al. Filter-Bank Modulation Based Signal Design and Transmission Techniques for Intensity Modulated MIMO Visible Light Communication Systems. Wireless Pers Commun 111, 1129–1150 (2020). https://doi.org/10.1007/s11277-019-06905-x, 2019
6.   Sanoopkumar p s, Muneer Parayangat, Sameer S. M.Joint Estimation of RF Impairments, Channel, and Low Complexity Iterative Equalization Technique for High Mobility SC-FDMA/OFDMA Uplink Systems, IEEE Transactions on Wireless Communications, DOI: 10.1109/TWC.2020.2982379, 2020

7.   Javed Mallick,Mohd Ahmed,Saeed Dhafer Alqadhi,Ibrahim I. Falqi,Muneer Parayangat,Chander Kumar Singh, "Spatial stochastic model for predicting soil organic matter using remote sensing data"Geocarto International, https://doi.org/10.1080/10106049.2020.1720314, Jan 2020

8.   Hany S. Hussein, Hagag, M Farrag.: 'Extended Spatial-Index LED Modulation for Optical MIMO-OFDM Wireless Communication. Electronics 2020, 9, 168.

9.   Hany S. Hussein, Hagag, M.: 'Optical polar based MIMO-OFDM with fully generalised index-spatial LED modulation', IET Communications (2020), 14 (2):282

10   Vineet Tirth, Ram Karan Sing, Saiful Islam, Irfan Anjum Badruddin, Rini Asnida Binti Abdullah, Ali Algahtani, Essam R.I. Mahmoud, Amir Arabi, Neeraj Kumar Shukla, and Parul Gupta, "Kharif Crops Selection for Sustainable Farming Practices in the Rajasthan-India Using Multiple Attribute-Based Decision-Making", Journal of Agronomy, pp. 2-15, Agronomy 2020, 10, 536; doi:10.3390/agronomy10040536, April. 2020.

11.   H. Loukil, M. Abbas, A. Algahtani, A. Kessentini, M. Parayangat, T. Ijyas, B. Salaheldin, A. Mohammed, "Novel Design And Implementation Of High Efficiency Video Coding

2020 conferences =============

1. L. A. Ayadi, H. Loukil, M. A. Ben Ayed, N. Masmoudi "Hardware-software implementation of HEVC decoder on Zynq" Multimedia Tools and Applications, Springer US, 2020..

2. M. Abbas, A. Algahtani, A. Kessentini, H. Loukil, M.Parayangat, T. Ijyas, B. Salaheldin and A.Mohammed "Recent Trends in Nanoelectronic Device Fabrication" CURRENT NANOSCIENCE, 2020.

3. M. Abbas, M. Alqahtani, A. Algahtani , A. Kessentini, H. Loukil, M. Parayangat, T. Ijyas and A.Mohammed "Validation of Nanoparticle Response to the Sound Pressure Effect during the Drug-Delivery Process" POLYMERS,2020.

2019 journals =========

1. M.Zubair, S.Syed, M.Shiblee, M.Usman, M.Zaidi, Z.Ahmad, M.Muqeet & M.Habeeb, "Detecting benign and pre-cancerous tongue lesions using deep convolutional neural networks for early signs of oral cancer",(2019) Abstracts, BCPT, 125:3-237

2. A. A. Sathar, P. Muneer, V. P.T. Ijyas, M. Usman, M. Z. Shamim, M. Shiblee, "Filter-Bank Modulation Based Signal Design and Transmission Techniques for Intensity Modulated MIMO Visible Light Communication Systems", WPC, Springer, 2019

3. M. Wajid, M. Kumari, M. Usman, O. Farooq, "Estimation of mixing coefficients using the joint probability distribution of mixed signals", IETE Journal of Research, Taylor and Francis, Nov. 2019, Impact Factor: 0.829. DOI: 10.1080/03772063.2019.1682073

4. Hussein M. Waly, Haitham Z. Azazi, Dina S. M. Osheba, , and Awad E. El-Sabbe, " Parameters Extraction of Photovoltaic Sources Based-on Experimental Data " IET Renewable Power Generation, Vol. 13, No. 9, pp. 1466 – 1473, 2019.5.   Mahmoud S. Abd El-Moniem, Hany M. Hasanien, Haitham Z. Azazi, E.E. El-Kholy, and S. A. Mahmoud, " An Adaptive Fuzzy Logic Control Strategy for Performance Enhancement of a Grid-Connected Variable-Speed Wind Generator " IEEE Transactions on Industrial Informatics, Vol. 15, No. 6, pp. 3163 - 3173, June 2019.

6. Osama M. Salem, Haitham Z. Azazi, Dina S. Oshiba and Azza E. Lashine " A Novel Single-Stage Single-Phase Full Bridge Boost Inverter for Voltage Regulation " International Journal of Electronics, 2019.

https://doi.org/10.1080/00207217.2019.1636305

7. Mahmoud S. Abd El-Moniem, Hany M. Hasanien, Haitham Z. Azazi, E.E. El-Kholy, and S. A. Mahmoud, " Linear-Quadratic Regulator Algorithm-Based Cascaded Control Scheme for Performance Enhancement of a Variable-Speed Wind Energy Conversion System " Arabian Journal for Science and Engineering, Vol. 44, No. 3, pp. 2281–2293, 2019.

8. Mohamed K. Metwaly, Mohamed S. Zaky, Haitham Z. Azazi,and Said. A. Deraz, " Performance of a Modified Stator Current-based MRAS Observer in Sensorless Induction Motor Drives " Electric Power components and Systems, Vol. 46, No. 16-17, pp. 1857–1871, 2019

9. Mohamed S. Zaky, Tamer Fetouh and Haitham Z. Azazi " A New Single-Stage Three-Phase PFC for Four-Switch Three-Phase Inverter Fed IM Drives " Advances in Electrical and Computer Engineering, Vol. 19, No. 2, pp. 83 –90, 2019

10. Zakaria Elbarbary, Mohammad Azeem and Haitham Z. Azazi " Adaptive Fuzzy Based IRFOC of Speed Sensorless Six-phase Induction Motor Drive System" Journal of Circuits, Systems, and Computers, Vol. 29 No. 4, March 2019

11. Abdellatif M. Aboutaleb, Haitham Z. Azazi, Dina S. Oshiba, and Awad E. El-Sabbe " A Shunt Active Filter for Compensating Harmonics and unbalance in Three-Phase Four-Wire Systems " International Journal of Electronics, 2019

12. Abdellatif M. Aboutaleb, Haitham Z. Azazi, Dina S. Oshiba, and Awad E. El-Sabbe " A Four-Switch Shunt Active Filter Based on One Cycle Control for Compensating Non-Linear Loads " International Journal of Electronics, 2019

13. Abdelaziz Salah Saidi, Mohamed Arbi Khlifi and Mohamed Fazle Azeem IEEE Senior Member. "Two Parameter Bifurcation Analysis of Wind Power Farms and Composite Loads". Wind Energy. 2019. Wiley Journal. ISI Journal. Impact factor: 3.125 Volume 22, Issue 9, pp. 1243-1259. September 2019. https://doi.org/10.1002/we.235314. Abdelaziz Salah Saidi "Behavior of a doubly fed induction machine". International Journal of Advanced and Applied Sciences (IJAAS). 6(10) October 2019, Pages: 14-18. https://doi.org/10.21833/ijaas.2019.10.003 ISI Journal.

14. Hany S. Hussein.: 'Optical MIMO-OFDM with fully generalized index-spatial LED modulation, IEEE Communications Letters, 2019, 23, (9), pp. 1556–1559

15. Thafasal Ijyas V. P. and Mohammed I. Al-Rayif, \Low Complexity Joint PAPR Reduction andDemodulation Technique for OFDM Systems," IETE Journal of Research, Taylor and Francis,10 October 2019, Published online: 10 Oct 2019, ttps://doi.org/10.1080/03772063.2019.1674194.

16. M Abbas, A Kessentini, H Loukil, P Muneer, VP Thafasal Ijyas, SE Bushara, M Abdul Wase, "A Novel Design of an Intelligent Drug Delivery System Based on Nanoantenna Particles", Nanoscale research letters, Springer US, 2019.

2019 conferences =============

1. M. Usman, Z. Ahmad, M. Wajid, "Dataset of Raw and Pre-processed Speech Signals, Mel Frequency Cepstral Coefficients of Speech and Heart Rate Measurements", 5thIEEE International Conference on Signal Processing, Computing and Control (ISPCC-2019), 10 - 12 October 2019, Solan, India

2. M. Usman, M.D. Ansari, M. Wajid, "On the Complementary Relationship Between Sampling and Double Sideband-Suppressed Carrier modulation", 5thIEEE International Conference on Signal Processing, Computing and Control (ISPCC-2019), 10 -12 October 2019, Solan, India.

3. Abdellatif M. Aboutaleb, Haitham Z. Azazi, Dina S. Oshiba, and Awad E. El-Sabbe " Active Power Filter with Reduced Number of Semiconductor Switches Based on Synchronous Reference Frame " IEEE Conference on Power Electronics and Renewable Energy (CPERE), Aswan, Egypt, October 23-25, 2019.

4.   Hussein M. Waly, Haitham Z. Azazi, Dina S. M. Osheba, and Awad E. El-Sabbe, " Induction Motor Drive for PV Water Pumping System with High-Gain Non-Isolated DC-DC Converter" IEEE Conference on Power Electronics and Renewable Energy (CPERE), Aswan, Egypt, October 23-25, 2019.

5.   Haitham Elmasry, Haitham. Z. Azazi, E. E. El-Kholy, Sabry A. Mahmoud, " Performance Analysis of Transformer-less Dynamic Voltage Restorer " IEEE Conference on Power Electronics and Renewable Energy (CPERE), Aswan, Egypt, October 23-25, 2019.

6.   Haitham Elmasry, Haitham. Z. Azazi, E. E. El-Kholy, Sabry A. Mahmoud, " A Proposed Transformer-less Dynamic Voltage Restorer to Voltage Sag/Swell Mitigation " IEEE Conference on Power Electronics and Renewable Energy (CPERE), Aswan, Egypt, October 23-25, 2019.

7.   Asmaa E. Diab, Hany A. Hamed, Haitham Z. Azazi and E. E. El-Kholy " A New Direct Power Control P&O Method (PMPPT) for Standalone Photovoltaic Applications " IEEE Conference on Power Electronics and Renewable Energy (CPERE), Aswan, Egypt, October 23-25, 2019.

8.   Osama M. Salem, Haitham Z. Azazi, Dina S. Oshiba and Azza E. Lashine " A Grid Connected Three-Phase Single-Stage Boost Inverter " In proceeding of the 21th International Middle East Power Systems Conference (MEPCON 2019), Cairo, Egypt, December 17-19, 2019.

9.   A. Kammoun, F. Belghith, H. Loukil, N. Masmoudi "An efficient and unified 2D-inverse integer cosine transform (IICT) FPGA-hardware implementation for HEVC standard" Analog Integrated Circuits and Signal Processing, Springer US, 2019

10.   M. A. Yousfi, C. Ammari, K.Hajlaoui, H. Loukil & Z. Tourki "Constitutive modelling of wavy elastic response of metallic glass ribbon" PHILOSOPHICAL MAGAZINE LETTERS, 2019.

11.   H. Loukil, M. Abbas, A. Algahtani, A. Kessentini, M. Parayangat, T. Ijyas, B. Salaheldin, A. Mohammed, "Novel Design And Implementation Of High Efficiency Video Coding Hevc Transform Module"COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES, 2019.

12.   M Abbas, A Kessentini, H Loukil, P Muneer, VP Thafasal Ijyas, SE Bushara, M Abdul Wase, "A Novel Design of an Intelligent Drug Delivery System Based on Nanoantenna Particles", Nanoscale research letters, Springer US, 2019.

13.   Mohammed Salman Arafath, et.al " Fault Analysi s for Lightweight Block Cipher and Security Analy sis in Wireless Sensor Networ k for Internet of Things", Lecture Notes in Networks and System 107, Innovations in Electronics and Communication Engineering proceedings of the 8th ICIECE 2019, Springer

14.   Mohammed Salman Arafath, et.al " Analy sis o f Power in Medium Access Control Code Division Multip le Acce ss Protocol for Data Collect ion in a Wireless Sensor Network", Lecture Notes in Networks and System 107, Innovations in Electronics and Communication Engineering proceedings of the 8th ICIECE 2019, Springer

15.   A. Ravichandra, C.Deepika, M.Sayeeduddin Habeeb, 'A Review on Various Power Management Techniques in VLSI Circuits', Journal of Applied Science and Computations, Volume VI, Issue II, February/2019 ISSN NO: 1076-5131

16. Vijaya Bhasker Reddy, M Sayeeduddin Habeeb, 'Execution and Performance Analysis of Real Time Scheduling Algorithms for Embedded Applications', Journal of Applied Science and Computations, Volume VI, Issue II, February/2019 ISSN NO: 1076-5131

17. Mohammed Abdul Muqeet, Zeeshan Ahmed, Mohammed Sayeeduddin Habeeb, 'A design of 8b multiplying digital to analog converter in current mode using Glitch reduction Technique ', in proc. 14th Annual Research Day, College of Engineering, KKU, KSA 2nd April 4 2019.

18. Sondos Abdullah Alqarni, William G. Willmore, Jacques Albert and Christopher W. Smelser , "Self-monitored and optically powered fiber optic device for localized hyperthermia and controlled cell death invitro"

Books ====

1. Enabling Technologies for Next Generation Wireless Communications", Editors: Mohammed Usman, Mohd Dilshad Ansari &Mohd Wajid, CRC press, Taylor and Francis group, ISBN: 978-0-367-42249-3

2.` Studies in Intelligent Systems and Cognitive Computing" Series Editors: Vijender Kumar Solanki, Vinit Kumar Gunjan, Mohammed Usman", CRC press, Taylor and Francis group.

3. Modern approaches in IoT and Machine Learning for Cybersecurity, Springer

Chapters ======

1. Shardul Yadav, Mohd Wajid, Mohammed Usman, "Support Vector Machine- Based Direction of Arrival Estimation with Uniform Linear Array", Book Chapter in Advances in Computational Intelligence Techniques, Editors: S. Jain, M. Sood, S. Paul, Springer, ISBN: 978-981-15-2619-0, April 2020, https://doi.org/10.1007/978-981-15-2620-6_18

2. C. A. Kerrache, F. Ahmad, M. Elhoseny, A. Adnane, Z. Ahmad, B. Nour, "Internet of Vehicles over Named Data Networking: Current Status and Future Challenges", in Emerging Technologies for Connected Internet of vehicles and Intelligent Transportation System Networks, Springer. (ACCEPTED)

3. Mohammed Salman Arafath, et.al " Fault Analysi s for Lightweight Block Cipher and Security Analy sis in Wireless Sensor Networ k for Internet of Things", Lecture Notes in Networks and System 107, Innovations in Electronics and Communication Engineering proceedings of the 8th ICIECE 2019, Springer, CHAPTER 1 (ACCEPTED)

4. Mohammed Salman Arafath, et.al " Analysis o f Power in Medium Access Control Code Division Multip le Acce ss Protocol for Data Collect ion in a Wireless Sensor Network", Lecture Notes in Networks and System 107, Innovations in Electronics and Communication Engineering proceedings of the 8th ICIECE 2019, Springer, CHAPTER 4 (ACCEPTED)

5. C. A. Kerrache, F. Ahmad, M. Elhoseny, A. Adnane, Z. Ahmad, B. Nour,"Internet of Vehicles over Named Data Networking: Current Status and Future Challenges", in Emerging Technologies for Connected Internet of vehicles and Intelligent Transportation System Networks, Springer. (ACCEPTED)

Patents ======

1. "ICM-PERT Performance: Increase the Cache Memory Performance using Neural Network, Deep Learning", Patent Application No. 201941054348 of Date 28.12.2019.Publication Date 03.01.2020.Neeraj Kumar Shukla, et al.

Total Journals = 16 + 11 = 27

Total Conferences = 14+3 = 17

Others   = 04

Books = 03

Books chapters = 05

Total Patents = 1