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#### **CHAPTERS CONTRIBUTED:**

1. “Efficient Sensing Schemes for Cognitive Radio”, Published as Chapter 5 of the book titled “Advanced Wireless Sensing Techniques in 5G Networks”, CRC press, Taylor & Francis Group, New York, pp. 75 – 87, 2019.
2. “Compressive Sensing in the Multiple Antenna Regime”, Published as Chapter 7 of the book titled “Advanced Wireless Sensing Techniques in 5G Networks”, CRC press, Taylor & Francis Group, New York, pp. 109 – 121, 2019.
3. Multiple Antennas Based Collaborative Spectrum Sensing Techniques”, Published as Chapter 8 of the book titled “Advanced Wireless Sensing Techniques in 5G Networks”, CRC press, Taylor & Francis Group, New York, pp. 123 – 137, 2019.
4. “Visible Light Communication for Advanced Wireless 5G Light – Fidelity Networks”, Published as Chapter 17 of the book titled “Advanced Wireless Sensing Techniques in 5G Networks”, CRC press, Taylor & Francis Group, New York, pp. 285 – 296, 2019.
5. “Proficient Reconstruction Algorithms for Low Dose X-ray Tomography”, has been accepted as a Chapter in the book titled “Hybrid Machine Intelligence for Medical Image Analysis” to be published by Springer-Studies in Computational Intelligence (indexed in Web of Science, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springer link), 2019.

#### **PAPERS PUBLISHED IN JOURNALS (National / International):**

1. “Peak-power reduction using improved partial transmit sequence in orthogonal frequency division multiplexing systems,” *Elsevier International Journal of Computer and Electrical Engineering*, vol., 44, , pp.80-90,2015 **SCIE, SCOPUS (Elsevier) IF – 1.747.**
2. “Power Allocation Strategies in Wireless Relay Networks,” *National Journal of Technology*, Vol. 11. No. 2. pp. 9-16, June 2015. ( ISSN – 0973-1334)
3. “A Novel Approach for Reduction of Radiation Dose in X-ray Computed Tomography”, in *International Journal of Advanced Research in Computer Science and Software Engineering*, Vol. 5. No. 2. pp. 607-612, Feb. 2015 (**DOAJ, Index Copernicus, Google Scholar**).
4. “Tomographic Image Reconstruction Using SART Algorithm”, in **Inderscience International Journal of Medical Engineering and Informatics**, Vol. 8. No. 3. pp. 239-248, 2016 (**SCOPUS -**

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7. "Leakage Power Aware LED Driver", **Under Review, Elsevier Journal of Materials Science (Scopus) IF : 2.764**
8. "Power Supply Noise Reduction In Mixed Signal System-On-Chip With Active Decoupling Indicator", *CIIT International Journal of Digital Signal Processing*, February 2017, pp. 17-25.
9. "Power Supply Noise Reduction Circuit for Mixed Signal VLSI Systems", *CIIT International Journal of Digital Signal Processing*, February 2017, pp. 26-30.
10. "A Low Noise and Power Efficient 45 nm GPDK Technology based Highly Stable Current Balancing Logic (HCBL) and Dynamic Logic Circuits for Mixed Signal Systems", *Association for the Advancements of Modelling and Simulation Techniques in Enterprises (AMSE), Series: Advances C*, Vol. 72, No.1, pp. 11-24, February 2017
11. "Harmonizing Mechanism for Power Saving and Delay Reduction in LTE Networks using DRX", *CIIT International Journal of Digital Signal Processing*, 9(2) February 2017, pp. 31-34.
12. "Performance of Half Duplex Cellular Network over a Multiple Access Relaying Channel", *CIIT International Journal of Networking and Communication Engineering*, 9(2) February 2017, pp. 26-30.
13. "Performance of Landweber iteration Algorithm in Tomographic Image Reconstruction", *International Journal of Image Mining*, Inderscience Publication. Vol. 2, Nos. ¾, 2017, pp. 292-300 (**Asian Digital Library**).
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15. "Analysis on Spectrum Sensing Schemes for Cognitive Radio Networks", *International Journal of Image Mining*, Inderscience Publication, Vol. 2, Nos. ¾, 2017, pp. 195-207 (**Asian Digital Library**).
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17. "Optimal Channel Sharing in Cognitive Radio Networks", *International Journal of IRCCE*, Vol.3, No. 4, April 2015, pp. 3607.

18. "Green Cooperative Spectrum Sensing for Cognitive Radio Network", CIIT International Journal of Networking and Communication Engineering, 9(2) February 2017.
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20. "Functional mechanism of DRX parameters for power saving and latency in LTE network", in Inderscience International Journal of Knowledge Engineering and Soft Data Paradigms, Vol.5 , No. 3/4, 2016, pp. 237-247 (**ACM Digital Library, Google Scholar**).
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22. "Performance of full duplex One-way and Two-way Cooperative Relaying Networks", Indonesian Journal of electrical Engineering and Computer science, Vol 9, no. 2, 2018, pp. 526-538 (**SCOPUS**).
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25. "A Novel Single Inductor eight –channel, light emitting diode driver for low power display backlight applications", Turkish Journal of Electrical Engineering & Computer Sciences, Vol 26, 2018, pp. 2130-2139 (**SCIE – Thomson Reuters, SCOPUS – Elsevier**).
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30. "Impact of DRX Parameters On User Equipment Power Saving and Delay Reduction in LTE Networks", AMSE, Advances in Modelling and Analysis D, Vol. 23, No. 1, December 2018,

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31. “Hierarchal Energy Balanced Fault Tolerant Multipath Routing Protocol (HEBFTMRP) for Wireless Sensor Networks”, AMSE, Advances in Modelling and Analysis D. **(Accepted for publication)**.