International Journals

1. Chandrika B.K., Aparna P., Sumam David, Perceptually Lossless Coder for Volumetric Medical Image Data, Journal of Visual Communication and Image Representation, Elsevier, Volume 46, Pages 23-32, July 2017.

2. Chandrika B.K., Aparna P., Sumam David, "Visually lossless coder for volumetric MRI and CT image data using wavelet transform", International Journal of Computational Vision and Robotics, Special Issue on Advances in Mathematical and Computational Sciences, Inderscience Publishers, Vol. 7, No.6, pp. 644-668, 2017.

3. Deepa Puneeth, Nishanth Joshi, P K Atrey, Muralidhar Kulkarni, "Energy Efficient and Reliable Data Collection in Wireless Sensor Networks", Accepted for publication in Turkish Journal of Electrical Engineering & Computer Sciences, (SCI-E Journal), March 2017. (In Press)

4. Nishant Joshi D, Muralidhar Kulkarni, Shivaprakasha K S,"Range Adjustable Hybrid Multi Path Routing Algorithm for WSNs", Accepted for publication in International Journal of Sensor Networks, Inderscience (SCI Journal), January 2017. (In Press)

5. Jhnanesh Somayaji, B. Sampath Kumar, M. S. Bhat and Mayank Shrivastava, "Performance and Reliability Codesign for Superjunction Drain Extended MOS Devices", to appear in IEEE TRANSACTIONS ON ELECTRON DEVICES (https://doi.org/10.1109/TED.2017.2733043

6. Jnanesh Somayaji and M. S. Bhat, "Triple RESURF DEMOS device design and its RF performance evaluation for Sub-Micron RF SoC platform" to appear in Jl. of Low Power Electronics (JOLPE), Vol. 13, No 4, December 2017.

7. Jagadish D. N, Laxminidhi T. and M. S. Bhat, "An 11.39 fJ/conversion-step 780 kS/s 8 bit Switched Capacitor based Area and Energy Efficient SAR ADC in 90 nm CMOS" to appear in IET Circuits, Devices and Systems.

8. Goutham Simha G.D.; Shriharsha Koila; Neha N; Ragahvendra M A N S, U.Shripathi. "Redesigned Spatial Modulation for Spatially Correlated Fading Channels", Year: 2017. Wireless Pers Commun (2017). https://doi.org/10.1007/s11277-017-4762-6.

9. Goutham Simha G.D.; Shriharsha Koila; Ragahvendra M A N S, U. Shripathi Acharya. A Comprehensive Framework for Double Spatial Modulation Under Imperfect Channel State Information Year: 2017. (Accepted with minor Revisions. Elsevier Physical communications.)

10. Lwaa Faisal Abdulameer, U. Shripathi and M. Kulkarni, "CSK based STBC-CDMA System: Design and Performance Evaluation", Association of Arab Universities Journal of Engineering Sciences, No. 1 Volume. 24 Year. 2017, pp. 13-29.

11. Abhishek MB, N.Shekar V.Shet, "Data Transmission Unit and web server interaction to monitor water distribution: A cyber physical system perspective", Published in International Journal on Advanced Science, Engineering and Information Technology (Scopus Indexed Journal), August 2017

12. Ranjan Kumar Mahapatra, N.S.V.Shet, "Localization based on RSSI exploiting Gaussian and Averaging Filter in Wireless Sensor Network", Arabian Journal for Science and Engineering, Springer (SCI-E Journal), August 2017.

13. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran,"Energy-E cient Network Architecture for IoT Applications," Beyond the Internet of Things, Signals and Communication, Springer, ISBN 978-3-319-50758-3, 2017, pp. 119-144.

14. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, " Energy E cient Network Design for IoT Healthcare Applications," Internet of Things and Big Data Technologies for Next Generation Healthcare, Studies in Big Data, Volume 23, Springer, ISBN 978-3-319-49736-5, 2017, PP. 35-61.

15. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Reliable Cross Layer Design for E-health Applications - IoT Perspective." Cognitive Data Science Methods and Models over Internet of Things (IoT), 2017, In Press.

16. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, " Envisioned Network Architecture for IoT Applications." EAI/Springer Innovations in communication and computing, 2017, In Press, 2017.

17. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Effective Integration of Reliable Routing Mechanism and Energy E cient Node Placement Technique for Low Power IoT Networks" Journal of Grid and High Performance Computing, Volume 9, Issue 4, Article 2, 250117-012241, 2017.

18. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, " Traff c Balancing Network Architecture for Enhancing Lifetime of Smart Devices in Low Power IoT Networks." Research Journal of Applied Science and Engineering, Article in Press. 2017

19. L Srinidhi, C., Aparna, P. & Rajan,J, "Recent Advancements in Retinal Vessel Segmentation", Journal of Medical Systems, Springer, April 2017, 2017,41:70, doi:10.1007/s10916-017-0719-2. (SCIE indexed)

20. Princy M Paul, *Kandasamy K, Sharawi MS, "A tri-band slot antenna loaded with split ringresonators", Microw. Opt. Technol. Lett,* Vol. 59, no. 10, PP. 4595 - 4606, Oct *2017.*

21. Nagaraju Y P, Pardhu Madipalli, Jeny Rajan, P Krishna Kumar, A. V. Narasimhadhan, "Segmentation of Intima Media Complex From Carotid Ultrasound Images Using Wind Driven Optimization Technique, Biomedical Signal Processing and Control", (Elsevier), Accepted, 2017 Impact factor 2.2.

22. Asha C S and A. V. Narasimhadhan, "Robust Infrared Target Tracking using Discriminative and Generative Approaches, accepted Infrared Physics and Technology" (Elsevier), 2017, Impact factor 1.99.

23. Aman Sharma, Naga Ganesh Kurapati, Ravi Prasad K. Jagannatha, K J Patrice Wirab, Shyam Lal, and A.V. Narasimhadhan, "Modified Null Space Strategy to Solve Consensus Problem", published in Kuwait Journal of Science, Academic Publication council of Kuwait University, Kuwait. 2017 (Impact factor 0.35).

24. Shilpa Suresh and Shyam Lal, C. Sudhar Reddy and Mustafa Servet Kiran, "A Novel Adaptive Cuckoo Search Algorithm for Contrast Enhancement of Satellite Images", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS), Vol. 10, No.8, pp. 3665-3676, August 2017, IEEE publisher.* Article DOI: 10.1109/JSTARS.2017.2699200 Indexed by SCI, Thomson ISI, Scopus (Elsevier), JCR(2016) Impact Factor: 2.913.

25. Shilpa Suresh and Shyam Lal, "Multilevel Thresholding based on Chaotic Darwinian Particle Swarm Optimization for Segmentation of Satellite Images," Applied Soft Computing, Vol. 55, pp. 503-522, March 2017, Elsevier Publisher.

26. Shreyas A Simu and Shyam Lal " A study about Evolutionary and Non-evolutionary Segmentation Techniques on Hand Radiographs for Bone Age Assessment", Biomedical Signal Processing and Control, Vol. 33, pp.220-235, March 2017, Elsevier Publisher. Indexed by SCI, Thomson ISI, Scopus (Elsevier), JCR (2015) Impact Factor: 2.27.

27. Narendra Singh Pal, Shyam Lal, Kshitij Shinghal, "Modified Visibility Restoration based Contrast Enhancement Algorithm for Colour Foggy Images, IETE Technical Review, Taylor and Francis publisher. Feb. 2017.

28. Deepa Puneeth, R Ruthwik, Muralidhar Kulkarni, "Data Aggregation using Compressive Sensing for Improved Network Lifetime in Large Scale Wireless Sensor Networks", International Journal of Control Theory and Applications, Vol:No.9, Issue:17, pp.8651-8657, 2016.

29. Jaspal Kumar, M Kulkarni, Daya Gupta and Indu S, "Secure Route Discovery in AODV in Presence of Blackhole Attack" CSI Transactions on ICT, SPRINGER, Vol 2, Issue 3, pp 91-98, April, 2016.

30. Rekha S., Laxminidhi T., "0.5 V, 5 MHz Active-RC Biquad filter in 90 nm CMOS Technology" – International Journal of Circuits & Architecture Design, Int. J. Circuits & Architecture Design, Inderscience Publication, DOI:10.1504/IJCAD.2016.082134, ISSN; 2051-7025, Vol.2, No. 2, 2016. pp. 142-154.

31. Rekha S. and Laxminidhi T., "Common mode Feedback circuits for low voltage fully Differential – amplifiers", Journal of Circuits, Systems and Computers, World Scientific Publishing Company, ISSN: 0218-1266, May 2016. DOI: 10.1142/S0218126616501243, Vol.25, No.10 (2016), 1650124 (12 pages).

32. Pramod Kumar and Ashvini Chaturvedi, "Spatio-temporal Probabilistic Query Generation Model and Sink Attributes for Energy Efficient Wireless Sensor Networks", IET Networks, 2016, Vol. 5, Iss. 6, pp. 170-177.

33. Pramod Kumar and Ashvini Chaturvedi, "Probabilistic query generation and fuzzy c-means clustering for energy-efficient operation in wireless sensor networks", INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, Wiley, Volume 29, Issue 8, May 2016, pp. 1439–1450.

34. D. Sai Parameswari and Aparna P, "An efficient framework for segmentation and identification of tumours in brain MR images", Int. J. Advanced Media and Communication, Vol. 6, Nos. 2/3/4, 2016.

35. Basudev Majumder, Krishnamoorthy K, Jayanta Mukherjee,and K.P.Ray,"Compact Broadband Directive Slot Antenna Loaded with Cavities and Single and Double Layers of Metasurfaces", IEEE Transactions on Antennas and Propagation, Vol. 64, no. 11, PP. 4595 - 4606, Nov 2016. (Among top 3 frequently accessed articles for IEEE TAP in Nov 2016)

36. Krishnamoorthy K., Basudev Majumder, Jayanta Mukherjee and K. P. Ray, "Dual-Band Circularly Polarized Split Ring Resonators Loaded Square Slot Antenna", IEEE Transactions on Antennas and Propagation, vol. 64, no. 8, pp. 1-6, August 2016.

37. Basudev Majumder, Krishnamoorthy K, Jayanta Mukherjee and K. P. Ray, "Frequency Reconfigurable Slot Antenna Enabled by thin Anisotropic Meta-surface Layer", IEEE Transactions on Antennas and Propagation, vol. 64, no. 4, pp. 1218-1225, April 2016

38. K. Vasudeva Reddy, K. Sravani, Prashantha Kumar H. "Low power ultra wide-band balun LNA using noise cancellation and current-reuse techniques", Microelectronics Journal, 2016. (Elsevier)

39. Gnane Swarnadh Satapathi, Pathipati Srihari, "Soft and Evolutionary Computation Based Data Association Approaches for Tracking Multiple Targets in the presence of ECM" Accepted in final form for publication in Expert systems with Applications, Elsevier.

40. Gnane Swarnadh Satapathi, Pathipati Srihari, "Waveform Agile Sensing Approach for Tracking Benchmark in the Presence of ECM using IMMPDAF" Accepted in final form for publication in Radioengineering Journal,ISSN 1805-9600 (Online), Listed in Science Citation Index Expanded and SCOPUS.)

41. Shilpa Suresh and Shyam Lal, "2D-CS Adaptive FIR Wiener Filtering Algorithm for the Denoising of Satellite Images",*IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, IEEE publisher. (*Accepted) Indexed by SCI, Thomson ISI, Scopus (Elsevier), JCR(2016) Impact factor: 2.93.

42. Shilpa Suresh and Shyam Lal, "Modified Differential Evolution Algorithm for Contrast and Brightness Enhancement of Remote Sensing Images," *Applied Soft Computing, Vol. 61, pp. 622-64, December 2017, Elsevier Publisher*. Indexed by SCI, Thomson ISI, Scopus (Elsevier), JCR (2016) Impact Factor: 3.541.

43. Shreyas A Simu and Shyam Lal, Pranav Nagarsekar, Amrish Naik, "Fully Automatic ROI Extraction and Edge-based Segmentation of Radius and Ulna Bones from Hand Radiographs for Bone Age Assessment," Biocybernetics and Biomedical Engineering, *Elsevier Publisher*. Article DOI:http://dx.doi.org/10.1016/j.bbe.2017.07.004 (In Press) Indexed by SCI, Thomson ISI, Scopus (Elsevier), JCR (2016) Impact Factor: 1.031

44. Shilpa Suresh and Shyam Lal, "An Efficient Cuckoo Search Algorithm based Multilevel Thresholding for Segmentation of Satellite Images Using Different Objective Functions, Expert Systems with Applications, vol. 58, pp. 184-209, October 2016, Elsevier Publisher. Indexed by SCI, Thomson ISI, Scopus (Elsevier), JCR(2015) Impact Factor: 2.981, & [ISSN No.: 0957-4174], Article DOI: 10.1016 /j.eswa.2016.03.032.Available online: http://www.sciencedirect.com/science/article/pii/S0957417416301348

45. Chandrika B.K., Aparna P., Sumam David, Analysis and Comparison of Symmetry based Lossless and Perceptually lossless algorithms for Volumetric compression of medical images, Journal of Medical Informatics & Technologies, Vol no. 24, pp. 147-154, 2015, ISSN No. 1642-6037

46. D. N. Jagadish and M. S. Bhat, "Low Energy and Area Efficient Nonbinary Capacitor Array Based Successive Approximation Register Analog-to-Digital Converter", Journal of Low Power Electronics, 11, 436-443 (2015).

47. Pramod Kumar and Ashvini Chaturvedi, "Sink attributes analysis for energy efficient operations of wireless sensor networks under randomly varying temporal and spatial aspects of query generation", International Journal of Electronics and Communications, Elsevier, 2015, Vol. 69, Iss. 7, pp. 1058-1069.

48. Joseph Antony, K. McGuinness, N.Welc, J.Coyle, A.Franklyn-Miller, N.E. O'Connor and K.Moran, "An interactive segmentation tool for quantifying fat in lumbar muscles using axial lumbar-spine MRI, IRBM, 2015, ISSN No. 1959-0318, http://dx.doi.org/10.1016/j.irbm.2015.10.004.

49. Neil Welch, Kieran Moran, Joseph Antony, Chris Richter, Brendan Marchall, Joe Coyle, Eanna Falvey and A Franklyn Miller, "The effects of a free-weight-based resistance training intervention on pain, squat biomechanics and MRI-defined fat infiltration and funtional cross-sectional area in those with chronic low back", BMJ Open Sport & Exercise Medicine, Vol.1, Issue 1, Page No. 1-11, 2015, ISSN No. 2055-7647 doi:10.1136/bmjsem-2015-000050.

50. K. Kandasamy, B. Majumder, J. Mukherjee and K. P. Ray, "Low-RCS and Polarization-Reconfigurable Antenna Using Cross-Slot-Based Metasurface," *IEEE Antennas Wireless. Propag. Lett.*, vol.14, no., pp.1638-1641, 2015.

51. K. Krishnamoorthy, B. Majumder, J. Mukherjee, and K. P. Ray, "Low Profile Pattern Diversity Antenna using Quarter-mode Substrate Integrated Waveguide," *Progress In Electromagnetics Research Letters*, Vol. 55, 105-111, 2015.

52. B. Majumder, K. Krishnamoorthy, J. Mukherjee, and K. P. Ray, "Wideband Compact Directive Metasurface Enabled Pair of Slot Antennas," *Electronics Letters* , vol. 51, no. 17, pp. 1310-1312, 2015.

53. Shyam Lal, and Rahul Kumar, "An Efficient Method for Contrast Enhancement of Real World Hyper Spectral Images", *The International Arab Journal of Information Technology, vol. 12, No.6A, pp.672-679, December 2015.* Indexed by SCI, Thomson ISI, Scopus (Elsevier), JCR (2014) Impact Factor: 0.582, & [ISSN No. : 1683-3198(Print)]

54. Shyam Lal , A. V. Narasimhadhan and Rahul Kumar, "Automatic Method for Contrast Enhancement of Natural Color Images", Journal of Electrical Engineering and Technology, 10(3): 1233-1243, 2015.

55. Muralidhara and Rathnamala Rao, "Investigations on displacement characteristics of piezoactuator based prototype actuator with hydraulic displacement amplification system", Journal of Mechanical Science and Technology, 29(11), pp 4817-4822.

56. Divijesh P, Vincent L. D'Souza, Muralidhara and Rathnamala Rao, " Investigations on Piezoactuator-Based Active Vibration Isolation for Tool-Based Micromachining Applications ", Journal of Mechatronics and Automation vol.2 (1), pp. 25–33, 2015.

57. Veeresha RK, Tauro AM, Muralidhara and Rathnamala Rao, "Investigation on Open Loop Position Control of Amplified Piezoactuator", Journal of Mechatronics and Automation. 2015; 2(1): pp.16–24, 2015.

58. R. K. Veeresha, Muralidhara, Rathnamala Rao and Astron Manoj Tauro1, "Investigation on the Performance of Valveless Pump for Microdelivery of the Fluid, Fabricated Using Tool-Based Micromachining Setup", Journal of Advanced Manufacturing Systems, vol 16 (2), pp-145-156.

59. Jaspal Kumar, M Kulkarni. Daya Gupta, S. Indu & Shashi Kumar, 2014, "Optimized Power Efficient Routing in Ad –Hoc Networks" International Journal of Next Generation Computing , vol.5, No.2, July 2014. pp. 191-199.

60. Savitha H M and Muralidhar Kulkarni, 2014, "BER Performance comparison of coded Communication systems under different turbulence conditions of free space optical channel", Trends in opto-electro and optical communications, Vol 4, Issue 1, March 2014, pp. 1-6.

61. Sadeque Reza Khan and M. S. Bhat, "Low Power Data Acquisition System for Bioimplantable Devices", Advances in Electronics, Hindawi Publishing Corporation, Published online, December, 2014, Article ID 394057, 13 pages http://dx.doi.org/10.1155/2014/394057

62. Ambresh G. Biradar, Dr. N. S. V. Shet, "Energy Efficient Multi-Layer Based Flat MAC Protocol for Wireless Sensor Networks, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 5, May - 2014.

63. Santosh Subhedi, Saubhgya Das, Dr. N. Shekar V. Shet, "Dynamic Spectrum Allocation in Wireless Sensor Networks, International journal of Modern Engineering research (IJMER),Vol 4, issue 5, May 2014, ISSN 2249-6645.

64. Shyam Lal, and Mahesh Chandra, "*Efficient Algorithm for Contrast Enhancement of Natural Images,*" The International Arab Journal of Information Technology, vol. 11, no.1, pp. 96-102, January 2014. Indexed by SCI, Thomson ISI, Scopus (Elsevier), Impact Factor: 0.390, & [ISSN No. : 1683-3198(Print)].

65. Venugopal T. R., Muralidhara and Rathnamala Rao, "Development of micro-EDM Incorporating In-situ Measurement System" Procedia Materials Science vol. 5, pp. 1897-1905, 2014.

66. Veeresha R.K, Muralidhara and Rathnamala Rao, "Development of Tool Based Micromilling/Microdrilling Machine with Piezoactuated Workpiece Feeding System", Applied Mechanics and Materials vol. 592, pp. 164-169, 2014.

67. E. S. Shajahan, M S Bhat, "Operating Analysis of DC and RF characteristics Capacitive Coupled RF MEMS Shunt Switches by Geometrical Modifications and Material selection" in International Journal of Computer and Electrical Engineering, Vol.5, No.5, October 2013.

68. Lwaa Faisal Abdulameer, Jokhakar Jignesh D., U. Shripathi and Muralidhar Kulkarni, "*BER Performance Enhancement for Secure Wireless Optical Communication Systems Based on Chaotic MIMO Techniques*", Nonlinear Dynamics, An international Journal of Nonlinear Dynamics and Chaos in Engineering Systems, (SPRINGER), Vol. 75, Issue 1-2, pp 7-16 DOI: 10.1007/s11071-013-1044-z., September 2013.

69. K S Shivaprakasha, Muralidhar Kulkarni, "*A Variable Length Distributed Source Coding Algorithm for WSNs*", International Journal of Advanced Computer Research, Volume 3, Number 3, Issue 11, September 2013 issue, ISSN: 2249-7277

70. Rekha S., Laxminidhi T., "*Low voltage, Low power Chebyshev filter in 0.18 µm CMOS Technology* ", Journal of Circuits, Systems and Computers, World Scientific Publishing Company, ISSN: 0218-1266, Vol.22, No.7, August 2013.

71. A. A. Bini and M.S. Bhat, "*A nonlinear level set model for image deblurring and denoising*", The Visual Computer - International Journal of Computer Graphics (SPRINGER Publications), DOI 10.1007/s00371-013-0857-6, Published Online, June 2013.

72. Lwaa Faisal Abdulameer, Jokhakar Jignesh D., U. Shripathi and Muralidhar Kulkarni, "*BER Performance Enhancement for Secure Wireless Communication Systems based on DCSK- MIMO Techniques under Rayleigh Fading Channel*", Radioelectronics and Communications Systems", (SPRINGER) Vol. 56, No. 10, pp. 481-492, 2013.

73. Jaspal Kumar, M. Kulkarni, Daya Gupta, "Effect of Black Hole Attack on MANET Routing Protocols", I. J. Computer Network and Information Security, 2013, 5, 64-72.

74. Shyam Lal, and Rahul Kumar, "Dual Tracking Method for Real Time Object Tracking using Moving Camera," *Research Journal on Applied Science, Engineering & Technology, vol. 5,No. 16, pp. 4158-4167, April 2013.* Indexed by Thomson ISI, Scopus (Elsevier), SJR (2014) Impact Factor: 0.16, & [ISSN: 2040-7459 (Print), 2040-7467 (Online)] - (DOI- 6655-RJASET).

75. Shyam Lal, and Rahul Kumar, "Enhancement of Hyperspectral Real World Images using Hybrid Domain Approach*," International Journal of Image, Graphics and Signal Processing, vol. 5, no. 5, pp. 29-39, April 2013.* Indexed by INSPEC, Scirus (Elsevier), and DOAJ, Impact Factor: 0.15 & [ISSN: 2074-9074 (Print), ISSN: 2074-9082 (Online)]-(DOI: 10.5815/ijigsp.2013.05.04).

76. Lwaa Faisal Abdulameer, Jokhakar Jignesh D., U. Shripathi and Muralidhar Kulkarni "*Anti-Jamming Performance of Communication Systems based on Chaotic Modulation and MIMO Schemes over AWGN Channels*, European Journal of Scientific Research, Vol. 102, Issue, 2013.

77. K S Shivaprakasha, Muralidhar Kulkarni, Raghavendra Patkar, 2013, "*Performance Analysis of Energy Efficient Modulation and Coding Schemes for Wireless Sensor Networks", International Journal of Parallel, Emergent and Distributed Systems*", Taylor & Francis, ISSN 1744-5760 (Print), 1744-5779 (Online), IF: 0.4, H-Index -15.

78. K S Shivaprakasha, Muralidhar Kulkarni, 2013, "*Improved Network Connectivity using Energy Aware Threshold based Efficient Clustering (EATEC) Algorithm for Wireless Sensor Networks*", International Journal of Computer Applications (IJCA), ISSN: 0975-8887, IF: 0.814

79. A V Narasimhadhan, A Sharma and D Mistry, *Image Reconstruction from Fan-Beam Projections without Back-Projection Weight in a 2-D Dynamic CT: Compensation of Time- Dependent Rotational, Uniform Scaling and Translational Deformations*," Open Journal of Medical Imaging, Vol. 3 No. 4, pp. 136-143, 2013.

80. Vasantha M.H. and Tonse Laxminidhi, "*Two-Port Transmission Line Parameters Approach for Accurate Modeling and Design Centering of Integrated Continuous- Time Filters*", International Journal of Advanced Computer Research (ISSN (print): 2249-7277, ISSN (online): 2277-7970) Volume-2, Number-4, Issue-6, pp:156- 162 December 2012.

81. Geetha Prakash, Muralidhar Kulkarni,U Shripathi, 2012, "*Classification of FSO channel models using Radial Basis Function Neural networks and their BER performance with Luby Transform Codes*", International Journal of Artificial Intelligence (IJAI), 2012.

82. Aparna P. and Sumam David, *Low Complexity Distributed Video Coding with Golay Codes, International Journal of Machine Learning and Computing* vol. 2, no. 4, pp. 466-470, August 2012.

83. K.H. Prashantha, U.K. Vinuth, U. Shripathi, Rajesh K Shetty , *"Performance Analysis of stack Decoding on Block Coded Modulation Schemes using Tree Diagram",* Radio electronics and communication systems,Vol.55, No.8, pp. 349 – 359, August 2012

84. Prashantha Kumar H, Shripathi U, Rajesh Shetty K and B. Shankarananda, "*Enhancing the Error Correcting Capability of Imai-Kamiyanagi Codes for Data Storage Systems by Adopting Iterative Decoding Using a Parity Check Tree*", IETE Journal of Research, Vol. 58, Issue 4, pp. 272-278, July-Aug 2012.

85. Rekha S. and Laxminidhi T., "*A low power, fully differential bulk driven OTA in 180 nm CMOS Technology*", International Journal of Computer and Electrical Engineering(IJCEE), Vol. 4, No. 3, June 2012.

86. Soorya Krishna K and M. S. Bhat, *"Impedance Matching in Multi-Layer Interconnect Structures to Minimize Signal Reflections in High Speed Applications"*, International Journal of Computer and Electrical Engineering, Vol. 4, No. 3, June 2012, pp. 345-349.

87. A. Bini and M. S. Bhat, *"Despeckling low SNR, low contrast ultrasound images via anisotropic level set diffusion"*, Multidimensional Systems and Signal Processing, Springer, published online, April, 2012.

88. Soorya Krishna K· and M.S. Bhat, "*Minimization of Via-Induced Signal Reflection in On-Chip High Speed Interconnect Lines*", Circuits, Systems, and Signal Processing, Springer, Volume 31, Issue 2, April 2012, 689-702.

89. Prashantha Kumar H, Shripathi U, Rajesh Shetty K, Shankarananda B, "*Stack Decoding of Linear Block Codes for Discrete Memoryless Channel Using Tree Diagram*", ICTACT Journal on Communication Technology, Vol. 3, Issue1, ISSN: 0976-0091, pp. 498-503, March-2012.

90. Rajesh Shetty K, Ramakrishna, Prashantha Kumar H, Shripathi U, "Design and Construction of BCH Codes for Enhancing Data Integrity in Multi Level Flash Memories", International Journal of Information and Communication Technology (IJICT-Inderscience Publishers) Vol. 4, No. 1, ISSN: 1466-6642, pp. 40-60, March- 2012.

91. Savitha H.M. , Muralidhar Kulkarni, 2012, *"Hybrid scheme for CFO cancellation in OFDM systems",* ACTA Press International Journal of Modeling and Simulation (IJMS), Canada, ISSN (Online): 1925-7082, ISSN (Hardcopy): 0228-6203.

92. Jora M Gonda and Sumam David, '*Real-Time Implementation of a Novel Vector-Locked Loop for Synchronous Extraction of Harmonics in Power Systems',* Journal of Electrical Engineering, University Politehnica, Romania, Vol. 12, No.1, pp. 87-94, 2012

93. Jora M Gonda and Sumam David, "*Real-time implementation of an amplitude-locked loop: a validation on the dSPACE DS1006-based platform*", Turkish Journal of Electrical Engineering and Computer Sciences, 2012. Vol. 21, Issue 3, pp 699-713, 2013.4.

94. Ramesh Kini. M and Sumam David, "*Implementation of Comprehensive Address Generator for DSP*", International Journal of Electronics, Taylor & Francis, pp. 1-18, 2012. DOI:10.1080/00207217.2012.713009

95. Deepu Vijayasenan, Fabio Valente, Herv e Bourlard "Multistream speaker diarization of meetings recordings beyond MFCC and TDOA features" Speech Communication 54(1), 55-67: (2012) 10.1016/j.specom.2011.07.001.

96. Shyam Lal, and Mahesh Chandra, "Image Denoising of Wavelet based Compressed Images Corrupted by Additive White Gaussian Noise," *Research Journal on Applied Science, Engineering & Technology, vol. 4, no. 17, pp. 3108-3118, 2012*. Indexed by Thomson ISI, Scopus (Elsevier), SJR (2014) Impact Factor: 0.16, & [ISSN: 2040-7459 (Print), 2040-7467 (Online) -(DOI- 4683-RJASET).

97. Shyam Lal, Sanjay Kumar and Pradeep Gupta, "Enhancement of wavelet based Compressed Images Corrupted by Salt & Pepper Noise," *MIT International Journal of Electronics and Communication Engineering*, vol. 2, no.2, pp. 51-58, 2012. Indexed by Google Scholar & [ISSN No.: 2230-7664 (Print), 2230-7672(Online)]

98. Shyam Lal, and Mahesh Chandra, "Efficient Algorithm for Enhancement of Images Corrupted by Salt & Pepper Noise," *WSEAS Transactions on Signal Processing, vol. 8, no.3, pp.* 135-144, *2012*. Indexed by Scopus (Elsevier), ACM, EI (Elsevier), SJR (2014) Impact Factor: 0.17, & [ISSN No. : 1790-5022]

99. Shyam Lal, Mahesh Chandra and Gopal Krishna Upadhyay, "Efficient Algorithm for Removal of High Density Additive White Gaussian Noise," *World Applied Sciences Journal, vol.16, no.12, pp. 1722-1733, 2012*. Indexed by Thomson ISI, Scopus (Elsevier), SJR (2014) Impact Factor: 0.32, & [ISSN: 2040-7459 (Print), 2040-7467 (Online)] - (DOI- 6655-RJASET) and [ISSN No.: 1818-4952(Print), 1991-6426(Online)]

100. Shyam Lal, Sanjeev Kumar, and Mahesh Chandra, "Removal of High Density Salt & Pepper Noise Through Super Mean Filter for Natural Images," *International Journal on Computer Science Issue, vol. 9, no. 3, pp. 303-309, 2012*. Indexed by Scopus (Elsevier), EI(Elsevier), Scirus(Elsevier), Impact Factor: 0.245, & ISSN No.:1694-0814(Online).

101. A V Narasimhadhan and K Rajgopal, *FDK algorithms with no backprojection weight for circular and helical cone-beam CT*," International Journal of Biomedical Imaging, Volume 2012, Article ID 969432, 12 pages, 2012.

102. Aparna, P. and Sumam David, S. (2011) *'Efficient Distributed Video Coding based on principle of syndrome coding'*, International Journal of Signal and Imaging Systems Engineering 2011 - Vol. 4, No.4 pp. 212 - 219, DOI: 10.1504/IJSISE.2011.044533

103. Ramesh Kini. M and Sumam David, '*ASIC Implementation of Address Generation Unit for Digital Signal Processing Kernel-Processor'*, ICGST International Journal on Programmable Devices, Circuits and Systems, PDCS, Vol. 11, Issue 1, pp. 1-9, December 2011.

104. K.S. Shivaprakasha, Muralidhar Kulkarni , 2011, , "*Energy Efficient Routing Protocols for Wireless Sensor Networks: A Survey*", International Review on Computers and Software (IRECOS), November 2011, Issue, Vol 6, No 6, ISSN 1828-6003, IF: 6.14, pp 929-943.

105. H. Prashantha Kumar a , U. Shripathi a & K. Rajesh Shetty, "High-speed and parallel approach for decoding of binary BCH codes with application to Flash memory devices", International Journal of Electronics, 2011, 1–11, Taylor and Francis.

106. Alwyn R. Pais, John D'Souza, et.al, *"Automatic Shadow Removal Algorithm for VOP, DWT Based Water Marking Algorithm for VOP, and Generation of Super Resolved VOP"*, International Journal of Multimedia and Ubiquitous Engineering", Vol. 6, No. 3, pp. 13-35, July 2011.

107. K S Shivaprakasha, Muralidhar Kulkarni, Pravin Kumar and Santosh Kumar Singh, *"Optimal Path Energy Efficient Routing Algorithm for Wireless Sensor Networks"* CiiT International Journal on Networking and Communication Engineering, February 2011.

108. Deepu Vijayasenan F. Valente and Herv e Bourlard "An Information Theoretic Combination of MFCC and TDOA Features for Speaker Diarization" IEEE Transactions on Acoustics, Speech and Language Processing 19(2): 431-438 (2011) 10.1109/TASL.2010.2048603.

109. A V Narasimhadhan and K Rajgopal , *Analysis and computer simulations of fan-beam algorithms with no backprojection weight for equi-space linear array detector*," J. of Nondestructive testing and evaluation, ISNT, 10(1), pp. 50-59, 2011.

110. Rajesh Shetty K, Shripathi U, Prashantha Kumar H, Shankarananda B, "Design and Construction of Algebraic Codes for Enhancing Data Integrity in Flash Memories", International Journal of Advances in Communication Engineering, Vol. 2, No. 2, ISSN: 0975-6094, pp. 51-56, July-December 2010.

111. Savitha H. M., Muralidhar Kulkarni, "Performance Evaluation of Turbo Coded OFDM Systems and Application of Turbo Decoding for Impulsive Channel", *ICTACT International Journal on Communication Technology*, Vol.1, Issue 3, pp.175-183, ISSN No.0976-0091, September, 2010.

112. Pramod M. and T. Laxminidhi "Low Power Continuous Time Common Mode Sensing for Common Mode Feedback Circuits", Journal of Circuits Systems and Computers, Vol 19, No.3, May 2010, pp 519-528

113. N S V Shet, K Chandrasekaran and K C Shet, " Implementation of Hand off through wireless access techniques", *International Journal of Telecommunications* ISSN: 2042-8839 Vol2, Issue 2, Page No. 143-146, May 2010

114. Jaspal Kumar, Muralidhar Kulkarni, Daya Gupta, "Performance Comparison of MANET Routing Protocols", *International Review on Computers and Software (IRECOS),* Vol. 5. n. 1, pp. 1-5, January 2010.

115. J Kumar, M Kulkarni, D Gupta, "Secure routing protocols in ad hoc networks: A review", Special Issue of IJCCT, 2010, pp.157-165.

116. Rathnamala Rao, Nandita DasGupta and Amitava DasGupta, "Study of Random Dopant Fluctuation Effects in FD-SOI MOSFET Using Analytical Threshold Voltage Model", IEEE Transactions on Device and Materials Reliability, vol. 10, issue 2, pp. 247 - 253, 2010.

117. N S V Shet, K Chandrasekaran and K C Shet, "Implementation of connectivity and hand over through WSN based Techniques", *Inter JRI, Computer Science & Networks Journal* ISSN:0975-2544, VolI, IssueI Page No.13-17, December 2009.

118. K Soorya Krishna, M Pramod and M S Bhat, "Modeling of single coupled, L&T type interconnects using state- space approach, *international journal of signal imaging systems engineering*, Vol.2, No.4, 216-223, 2009

119. Aparna P, Sivaprakash Reddy, Sumam David, "Distributed video coding using LDPC codes for wireless video" Journal of *Wireless Sensor Network Scientific Research Publishing*, November 2009, pp.334-339.

120. M S Bhat & G Rajashekar, "Design of resolution adaptive TQI flash ADC using AMS $0.35\,\mu m$ technology", *International Journal of Information and Communication Technology* Vol.2 Issue ½, 2009, Page 19-30.

121. Madasu Hanmandlu, Om Prakash Verma, Nukala Krishan Kumar, and Muralidhar Kulkarni, "A Novel Optimal Fuzzy System for Color Image Enhancement using Bacterial Foraging", *IEEE Transactions on Instrumentation and Measurement*, Vol.58, No.8, pp.2867-2879, August 2009.

122. Jaspal Kumar, M Kulkarni, Daya Gupta 2009, "Efficient Routing Techniques with Minimum Power Consumption for Ad -hoc Networks" IJICT International Journal on Electronics and Communication Technology, pp. 25-29, 2009.

123. Myagmarbayar Nergui, U Shripathi Acharya , Rajendra Acharya U, and Wenwei Yu, "Reliable and Robust transmission and storage techniques for Medical Images with Patient Information", *Journal of Medical Systems,*July 2009

124. Chintan A. Modi, Alwyn R. Pais and John D'Souza "Edge model based Super Resolution Video Generation" *International Journal of Recent Trends in Engineering, Computer Science*, Vol. 1, June 2009

125.   Deepu Vijayasenan F. Valente and Herv e Bourlard "An Information Theoretic Approach to Speaker Diarization of Meeting Data" IEEE Transactions on Acoustics, Speech and Language Processing 17(7), 1382-1393:(2009), 10.1109/TASL.2009.2015698.

126.   Rathnamala Rao, Guruprasad Katti, Dnaynesh S. Havaldar, Nandita DasGupta and Amitava DasGupta, "Unified Analytical Threshold Voltage Model for Non-uniformly doped Dual Metal Gate Fully Depleted Silicon-On-Insulator MOSFETs," *Solid State Electronics* ,vol 53, issue 3, pp 256-65, March 2009.

127.   Laxminidhi T, Prasadu V., Shanthi Pavan, *"Widely programmable high frequency Active-RC filters in CMOS process", IEEE Transactions on Circuits and Systems, Regular Papers*, Vol. 56, No.2 , Feb 2009, pp 327-336.

128.   Muralidhar Kulkarni, "A Modular Encoder Design Scheme for Turbo-encoded BPPM-OCDMA System", *NAUN International Journal of Communications*, Issue2, Volume 2, pp. 165-173, December 2008.

129.   S. Pavan and T. Laxminidhi "Accurate Characterization of Integrated Continuous Time Filters," IEEE Journal of Solid –State Circuits, Aug 2007.

130.   T.Laxminidhi and S. Pavan, "Efficiently Design Centering High Frequency Continuous-time Filters," *IEEE Transactions on Circuits and Systems I – Regular Papers*, July 2007.

131.   M. Kulkarni, R. K. Sinha and D. R. Bhaskar, "System Performance Comparison of Turbo and Trellis coded optical CDMA Systems", International Journal of Signal Processing, 2006 World ENFORMATICA Society, IJSP Vol. 3, No. 3, 2006,ISSN,1304-4478, pp.187-192.

132.   M. Kulkarni, R. K. Sinha and D. R. Bhaskar, "Performance Analysis of Turbo- coded Optical CDMA Systems", Journal of Optical Communications (Germany), Vol. 26, No.3 pp.131-137, June 2005.

133.   M Chopra, M Bhardwaj, M Kulkarni, Asok De and R. K. Sinha, "Design of a Hybrid Fiber-Optic Network Using 3-D Optical Code Sequences", Journal of Fiber and Integrated Optics (USA), Vol. 21, No. 4, pp. 253-268, 2002.

134.   J. D'souza and S.L. Mankara, " Simple method for constructing equivalent punctured codes for given true high rate codes", Electronic Letters, Vol. 30, pp. 24-26, Jan 1994.

135.   J. D'souza and S.L. Mankara, "On low complexity stack decoding of convolutional codes", IEEE Trans. Communications, Vol. 47, pp 648-652, May 1999.

National Journals

1. Sarwesh P, Dr. N. Shekar V. Shet, Dr. K. Chandraskaran, "Internet of Things : A Birds Eye View" CSI Communications magazine, Vol no 38, issue no 1, page no. 11-13, 2014

2. K S Shivaprakasha, Muralidhar Kulkarni, Nishant Joshi D, 2013, *"Improved Network Survivability using Multi Threshold Adaptive Range Clustering (M-TRAC) Algorithm for Energy Balancing in Wireless Sensor Networks"*, Journal of High Speed Networks, ISSN: 0926-6801, IF: 0.38, H- Index 21.

3. Prashantha Kumar H, Shripathi U, Rajesh Shetty K, Shankarananda B, "*Soft decision Fano coding of block codes over discrete menoryless channel using tree diagram*", Journal of Electrical Engineering, Vol.63, No. 1, ISSN 1335 - 3632, pp.59-64, Jan – Feb 2012.

4. Prashantha Kumar H, Shripathi U, Rajesh Shetty K, "*Construction of regular LDPC like codes bases on Full rank codes and their iterative decoding using a parity check tree*", ICTACT Journal on Communication Technology, Vol.2, Issue 3, ISSN 0976 -0091, pp.400-405, September 2011.

5. Kalpana G Bhat and Prajnam team, "Euclidean Distance Computation Algorithm for QAM applications", VSI Vision Journal, Dec. 2006.