

List of Publications

2010

Journals:

- [1] U. B. Mahadevaswamy, Dr. M.N ShanmukhaSwamy, “An Energy efficient reliable multipath routing protocol for data gathering in wireless sensor Networks” International Journal of computer Science and Information Security, Vol. 8, No. 2, May 2010. Impact Factor: 0.553, Citations: 7.

2012

Journals:

- [1] U. B. Mahadevaswamy, Dr. M.N ShanmukhaSwamy, “Delay Aware and load balanced Multi-path routing in wireless sensor networks”, International Journal of wireless information networks (Springer), Vol19, No: 03, 278-285, 2012. Impact Factor: 0.575, Citations: 9.
- [2] U. B. Mahadevaswamy, Dr. M.N ShanmukhaSwamy, “Load balanced multipath routing using multiple sinks in wireless sensor networks”, International Journal of computer science and information systems, Vol.05, No: 01 01-07, 2012. Impact Factor: 0.553.
- [3] U. B. Mahadevaswamy, Dr .M.N ShanmukhaSwamy, “Reliable and load balanced multipath routing for multiple sinks in wireless sensor networks”, International Journal of computer applications, Vol 50, No:12 14-21, 2012, Impact Factor: 0.821, Citation: 2

Conferences:

International

- [1] U. B. Mahadevaswamy, Raghavendra.Y.M, “WI-FI based real time monitoring and control system using power line communication”, International conference on innovation in Electronics and communication Engg., August 2013.
- [2] U. B. Mahadevaswamy, Mamatha D.V, “ Bus monitoring and passenger information system based on Zigbee and GPRS”, International conference on innovation in Electronics and communication Engg., August 2013.

National

- [1]. Vinutha D, Mr.Arindam Mall, U. B. Mahadevaswamy, “Simulation of High Resolution Sigma Delta Analog to Digital converter for space applications”, National Conference on advances in computer applications, May 2013.

2014

Journals:

- [1] AnupamaSindgi, U.B.Mahadevaswamy, “Designing Of Telecommand System Using System On Chip (SOC) For Spacecraft Control Applications”, International Journal Of Electronics And Communication Engineering & Technology, Aug 2014.

Conferences:

International:

- [1] U. B. Mahadevaswamy, Ashok Vijay Mukilan, “Iris Recognition”, International Conference on recent trends in Signal Processing, Image Processing and VLSI, Feb 2014.
- [2] U. B. Mahadevaswamy, Abhilash Krishnamurthy, “Traffic Symbol Recognition by means of Image Segmentation”, International Conference on recent trends in Signal Processing, Image Processing and VLSI and VLSI, Feb, 2014.
- [3] M.P.Kiran, U.B.Mahadevaswamy, “Real Time Vehicle Tracking And Control Using GSM And GPRS”, Second International Conference on Current Trends in Engineering and Management, August 2014.

Aug 2015 to July 2016

Journals:

- [1] Rajesha K V and U B Mahadevaswamy, “FFT based target detection using FMCW Radar”, IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Volume 6, Issue 4, Ver. II (Jul. - Aug. 2016), PP 13-18 e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197, Impact Factor: 2.82, Citation: 1
- [2] Shruthi B and U B Mahadevaswamy, “FPGA Implementation of Crypto-System based Wireless communication system,” IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Volume 6, Issue 4, Ver. I (Jul. - Aug. 2016), PP 26-31 e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197, Impact Factor: 2.82.

Conferences:

- [1] U B Mahadevaswamy and Naveen Lamba, “Extraction of License-Plate Number of Over Speeding Vehicles”, second International Conference on recent trends in Signal Processing, Image Processing and VLSI, PP:205-205,2015
- [2] U B Mahadevaswamy and H.T. Sunil Kumar, “Intelligent Cane for Visually Impaired with Auditory Guidance”, Second International Conference on recent trends in Signal Processing, Image Processing and VLSI, PP:250-254,2015

- [3] U B Mahadevaswamy and Y.S. Chamaraju, “Design & Implementation of Real Time Vehicle Theft Monitor, Alert and Control System”, Second International Conference on recent trends in Signal Processing, Image Processing and VLSI, PP:244-249,2015
- [4] U B Mahadevaswamy ,Shashank S Rai, T.M. Ranjeeth, : Design of an Arithmetic and Logic Unit Based on Reversible Logic Gates, Second International Conference on recent trends in Signal Processing, Image Processing and VLSI, 2015, 255-262.

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Aug 2016 to July 2017

Journals:

- [1] Ashwini B N, U B Mahadevaswamy and Abhilash G, “Reversible Logic based Kogge-Stone Adder,” International Journal of Research and Scientific Innovation (IJRSI) | Volume IV, Issue IA, January 2017 | ISSN 2321–2705, Impact Factor: 1.694.
- [2] Madhu R and U.B. Mahadevaswamy, “28 GSM/GPS based Device Switching with Fingerprint Module Integration using Arduino,” International Journal of Computer Applications (0975 – 8887) Volume 149 – No.2, September 2016, Impact Factor: 0.702, Citations: 1.
- [3] Rashmi M. N and U. B. Mahadevaswamy, “IOT based Energy Meter Monitoring using ARM Cortex M4 with Android Application,” International Journal of Computer Applications (0975 – 8887) Volume 150 – No.1, September 2016, Impact Factor: 0.702.

Conferences:

- [1] Geetha M.N and U.B Mahadevaswamy, “A Comparative Survey On PAPR Reduction In OFDM Signal,” 016 International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECOT), DOI: 10.1109/ICEECOT.2016.7955199. IEEE publisher, Date Added to IEEE Xplore: 26 June 2017.
- [2] Anupama Sindgi and U.B Mahadevaswamy, “Encoding Schemes For Power Reduction InNocLinks:A Review,” Proc. of Int. Conf. on Current Trends in Eng., Science and Technology, ICCTEST, Grenze ID: 02.ICCTEST.2017, Grenze Scientific Society, 2017.
- [3] Rekha M N and U.B Mahadevaswamy, “Wireless Sensor Network Tools for Power QualityApplications: A Survey,” Proc. of Int. Conf. on Current Trends in Eng., Science and Technology, ICCTEST, Grenze ID: 02.ICCTEST.2017.1.88, Grenze Scientific Society, 2017

- [4] Prasad M and U.B Mahadevaswamy, “Comparative Study of MOSFET, CMOS and FINFET: A Review”, Proc. of Int. Conf. on Current Trends in Eng., Science and Technology, ICCTEST, Grenze ID: 02.ICCTEST.2017.1.62, Grenze Scientific Society, 2017
- [5] Vinod Kumar Pand U.B Mahadevaswamy, “Wearable Energy Harvesting system with Multinode,” Proc. of Int. Conf. on Current Trends in Eng., Science and Technology, ICCTEST, Grenze ID: 02.ICCTEST.2017.1.101, Grenze Scientific Society, 2017
- [6] Raghavendra Y M and U.B Mahadevaswamy, “Review Of Energy Efficient Routing Protocols In Wireless Sensor Networks,” Proc. of Int. Conf. on Current Trends in Eng., Science and Technology, ICCTEST, Grenze ID: 02.ICCTEST.2017.1.176, Grenze Scientific Society, 2017

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Journals:

- [1] Dr. U B Mahadevaswamy, Abhishek S, Arun S, Bharadwaj, Karthik R Hegde, “Smart courier box”, GRENZE International Journal of Computer Theory and Engineering, Volume 3, Issue 4, Grenze Id: 01. GIJCTE.3.4.6, Pages 29-33, ISSN: 2455-1694, 2017.
- [2] Dr. U B Mahadevaswamy, Vinod Kumar P, Gurusiddesh Vnidasesi, Pratheek Naidu k, Rakesh, “Design and development of virtual keyboard”, GRENZE International Journal of Computer Theory and Engineering, Issue 4, Volume 3, Grenze Id: 01. GIJCTE.3.4.13, Pages 75-80, ISSN: 2455-1694, 2017.
- [3] Dr U B MahadevaSwamy, N MadhuSudhan, Divya G M, Manasa, “Automated prepaid Auto System”, GRENZE International Journal of Computer Theory and Engineering, Issue 4, Volume 3, Grenze Id: 01. GIJCTE.3.4.49, Pages 328-335, ISSN: 2455-1694, 2017.
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- [5] Dr. U. B Mahadevaswamy, Anupama, “Design and development of a Smart device for Energy monitoring and control of domestic appliances: An android application”, DOI: 10.5815/ijigsp.2018.1.05, I.J. Image, Graphics and Signal Processing, 2018,1,36-46, Impact Factor:0.722.

- [6] Dr. U. B Mahadevaswamy, Bhavyarani M P et all, “Inter Integrated WSN for Crude Oil Pipeline Monitoring” I.J. Computer Network and Information Security, Vol.10, No. 03, March 2018, DOI:10.5815/ijcnis.2018.03.05, PP 37-51, Impact Factor:0.726.
- [7] Dr. U B Mahadevaswamy, N Madhusudhan, “Air quality analysis system for indoor Environment and automation using IOT”, i-manager’s journal on mobile applications & technologies, vol. 4, No. 2, July - December 2017. 4(2), 22-31. <https://doi.org/10.26634/jmt.4.2.13832>, Impact Factor:0.4, h5-index: 4.
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- [10] Anusha k, U B Mahadevaswamy, "Automatic IoT Based Plant Monitoring and Watering System using Raspberry Pi", International Journal of Engineering and Manufacturing (IJEM), Vol.8,No 6, pp.55-67, 2018.DOI: 10.5815/ijem.2018.06.05

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- [1] Dr. U B MahadevaSwamy, Anil Manjunath Hegde, Kartik Shetty, Pavan P S, Lanchana K, “Driver Alertness ensuring system”, 48th International Conference on signal, Image Processing, communication and Automation-ICSIPCA-2017, page no 211 to 129.
- [2] Prasad M and Dr. U B Mahadevaswamy, “A Novel approach for leakage current reduction of 14nm NMOS device using HfO2 dielectric” International Conference Electrical, Electronics, Communication, Computers and Optimization Techniques (ICEECCOT-2017), DOI:10.1109/ICEECCOT.2017.8284653 , 08 February 2018, IEEE-2018, Page(s):129 – 134.
- [3] Anupama Sindgi and Dr. U B Mahadevaswamy, “Analysis of Switching Activity for Serial Data in NOC” International Conference Electrical, Electronics, Communication, Computers and Optimization Techniques (ICEECCOT-2017), DOI: 10.1109/ICEECCOT.2017.8284685, 08 February 2018, IEEE-2018, Page(s):293 – 296.

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Journals:

- [1] Vasudev Emmennavar and Dr. U. B. Mahadeva Swamy, "IOT Based Security System for Monitoring Surveillance Area by Using Raspberry Pi with Android App Alerts", IOSR Journal of Engineering (IOSRJEN), ISSN (e): 2250-3021, ISSN (p): 2278-8719, Vol. 08, Issue 10 (October. 2018), ||V (IV) || PP 51-58, Impact Factor: 1.645.
- [2] Mahadevaswamy,U.B., Durgad,Z.,(2019).IoT Based Smart Health Monitoring System. i-manager's Journal on Electronics Engineering,9(2),8-23. doi.org/10.26634/jele.9.2.14867.
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- [4] U B Mahadevaswamy and Anusha H N, "Robot Control using Hand Gestures", Journal on pattern recognition, i-manager publication, 2019.
- [5] U. B. Mahadevaswamy, Siraj ahmed, "Smart brain wave sensor for paralyzed- a real time implementation", i-manager's journal on pattern recognition, vol. 6 l no. 2 l june - august 2019.
- [6] Amrutha R and U B Mahadevaswamy, "High-speed double multiplication architecture for parallel multiplication using mastrovito multiplier", i-manager's Journal on Electronics Engineering, Vol. 9 ,No. 4 , June - August 2019.

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1. U B Mahadevaswamy and abdul khuddus A, "Smart Bike",First International Conference on Advances in Information Technology, ICAIT – 2019,24th - 27th July 2019.
2. U B Mahadevaswamy and Jananitha M P, "Congestion control for Improve cluster head gateway switch routing protocol using ad-hoc on-demand distance vector algorithm" International conference on sustainable communication networks and applications, 31st July 2019.

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Journals:

- [1] Prasad M and Dr. U B Mahadevaswamy, "Performance analysis of double gate GAA nanowire FET with different high-K gate oxide materials", Journal of critical reviews, JCR. 2020; 7(17): 1922-1931. doi:10.31838/jcr.07.17.239.
- [2] U B Mahadevaswamy, Vivek Keshava, Ajaykumar C. R. Lamani, "Robotic Mapping Using Autonomous Vehicle" SN Computer Science volume 1, article number: 180 (2020), Published: 22 May 2020.

- [3] Raghavendra Y M and U.B Mahadevaswamy, “Energy Efficient Routing in Wireless Sensor Network Based on Composite Fuzzy Methods” Journal of Wireless personal communication, ISSN 0929-6212 , 14th May 2020.
- [4] Geetha M.N and U.B Mahadevaswamy, “Performance evaluation and analysis of peak to average power reduction in ofdm signal”, wireless personal communications, doi.org/10.1007/s11277-020-07140-5, springer science business media, llc, part of springer nature Feb 2020.
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- [1].U B Mahadevaswamy, Pavan Nayak et all, “ Automation of soil nutrient measurement system and irrigation control”, 3rd international conference on communication, circuits and system held at school of electronics engineering, kalinga institute of industrial technology, bhubansewar, India from 16 to 18 October 2020.
- [2].U B Mahadevaswamy and Manoj Poojari, “ECG Signal Analysis, Diagnosis and Transmission”, 5th International Conference on Advanced Machine Learning Technologies and Applications (AMLT-2020), 13-15 Feb 2020, Manipal University Jaipur, India.
- [3].U B Mahadevaswamy and Shashank Rao M, “Visual Speech Processing and Recognition”, 5th International Conference on Advanced Machine Learning Technologies and Applications (AMLT-2020), 13-15 Feb 2020, Manipal University Jaipur, India.
- [4].Prasad M and Dr. U B Mahadevaswamy, “Performance analysis of GAA nanowire FET”, International conference on science, engineering and management (ICSEM-2020) on 24th – 25th Jan 2020 at Bangalore.
- [5].U B Mahadevaswamy and Prasad M, “Garabage and Air Monitoring using Arduino”, 8th International Conference on Innovations in Electronics and Communication Engineering (ICECE-2019), 2nd and 3rd August 2019.
- [6].U B Mahadevaswamy and Chaithra R K, “Child tracking system using GSM, RFID technologies”, 8th International Conference on Innovations in Electronics and Communication Engineering (ICECE-2019), 2nd and 3rd August 2019.

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Journals:

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2. Prasad, M., & Mahadevaswamy, U.B, "Density Gradient Study on Junctionless Stack Nano-Sheet with Stack Gate Oxide for Low Power Application", IETE Journal of Research, 12 Jan 2021. <https://doi.org/10.1080/03772063.2020.1869594>.
3. Prasad, M., Mahadevaswamy, U.B. Performance Analysis for Tri-Gate Junction-Less FET by Employing Trioxide and Rectangular Core Shell (RCS) Architecture. Wireless Personal Communication, 26 January 2021, <https://doi.org/10.1007/s11277-020-08035-1>.
4. U B Mahadevaswamy, Meghana N, "Design and Development of Soil Moisture Sensor", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-10 Issue-4, February 2021.
5. Raghavendra Y M and Dr.U.B Mahadevaswamy "Energy efficient routing in wireless sensor network based on mobile sink guided by stochastic hill climbing", International Journal of Electrical and Computer Engineering 10(6):5965, DOI: 10.11591/ijece.v10i6.pp5965-5973, December 2020.
6. Raghavendra Y M and Dr.U.B Mahadeva swamy, "Energy Efficient Intra Cluster Gateway Optimal Placement in Wireless Sensor Network", Wireless Personal Communications, <https://doi.org/10.1007/s11277-021-08247-z>, published online: 18th February 2021.
7. Prasad, M., Mahadevaswamy, U.B. Performance Study for Vertically Quad Gate Oxide Stacked Junction-less Nano-sheet. IETE Journal of Research, 08 April 2021. <https://doi.org/10.1080/03772063.2021.1908178>.
8. U B Mahadevaswamy, Arjun V Srivatsa et all, "Food Grain Storage Monitoring System", International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 9, Issue 12, Special Issue – 2021.
9. U B Mahadevaswamy and Abhijith B S, "Audio Steganography using Two Layered Encryptions", International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 9, Issue 12, Special Issue – 2021.

Conference:

1. Mahadevaswamy U.B., Aashritha D., Joshi N.S., Naina Gowda K.N., Syed Asif M.N. (2021) Indoor Navigation Assistant for Visually Impaired (INAVI), International Conference on Communication, Computing and Electronics Systems. Lecture Notes in Electrical Engineering, vol 733. Springer, Singapore. https://doi.org/10.1007/978-981-33-4909-4_17, pp 239-253, 26 March 2021.

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Journals:

1. .U. B. Mahadevaswamy, Megha K M, Abhijeet Bharti, Akhil S R. & Bijwal Jain, “JAIVIK - Helping Farmers to Grow More”, i-manager’s Journal on Information Technology, Vol. 9|No. 3 l, August 2021, 10.26634/jit.9.3.18298

Conference:

1. U. B. Mahadevaswamy Professor Sharayu Siddhanti, “A Real Time Application for Lung Cancer Prediction using Machine Learning.”, Second IEEE International Conference on Communication, Computing and Industry 4.0 (C2I4-2021), 16th – 17th December 2021

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1. M. N. Geetha and U. B. Mahadevaswamy, “Crest Dwindling and Interposing for PAPR Reduction in OFDM Signal with Sustainable Spectral Efficiency,” *Wirel Pers Commun*, vol. 125, no. 3, pp. 2799–2818, Aug. 2022, doi: 10.1007/s11277-022-09686-y.
2. R. Mullur Nagaraja Murthy and U. B. Mahadevaswamy, “Automatic fault identification in WSN-based smart grid environment,” *International Journal of Communication Systems*, 2022, pp.1-24, 13 August 2022, doi: 10.1002/dac.5340