




### List of Faculty Publications

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Dr. Kethepalli Mallikarjuna  
Dr. KETHEPALLI MALLIKARJUNA  
B.E, M.Tech, Ph.D, MISTE, FIETE, MIE  
Professor & HOD  
Department of ECE  
RGM College of Engg. & Tech. (Autonomous)  
NANDYAL - 518 501, Kurnool (Dist), A.P.

  
Dr. T. Jayachandra Prasad  
Dr. T. JAYACHANDRA PRASAD  
M.E, Ph.D.,  
PRINCIPAL  
R G M College of Engg. & Tech.,  
(Autonomous)  
NANDYAL-518 501, Nandyal (Dt), A.P.



**Consolidated Faculty Publication<sup>s</sup> for the A.Y: 2022-23**

ECE	International						National		Total
	SCI/SCIE	ESCI	Scopus	Journals	Conference	Book Chapters	Journal	Conference	
2022-23	6	00	10	07	09	00	00	00	32

S.No.	Publications	Total
1	International Journals	07
2	SCI& SCIE/ESCI	06
3	Scopus	10
4	IEEE Conference/IET Conferences (Scopus)	09
5	Books	00
6	Book Chapters& Scopus	00

*K. Mallikarjuna*

Dr. KETHEPALLI MALLIKARJUNA  
B.E, M.Tech, Ph.D, MISTE, FIETE, MIE  
Professor & HOD  
Department of ECE  
RGM College of Engg. & Tech. (Autonomous)  
NANDYAL - 518 501, Kurnool (Dist), A.P.



### SCI/ESCI/SCIE:

1. S. V. Ratankumar, L. Koteswara Rao, "Design of Multi-Valued Logic Circuit Using Carbon Nano Tube Field Transistors", Computers, Materials & Continua, CMC, 2022, vol.73, no.3, DOI: 10.32604/cmc.2022.027975 [SCI]
2. N. Nagaraja Kumar, T. Jayachandra Prasad and K. Satya Prasad P. "An Intelligent Multimodal Medical Image Fusion Model Based on Improved Fast Discrete Curvelet Transform and Type-2 Fuzzy Entropy" International Journal of Fuzzy Systems (2022) Springer. DOI 10.1007/s40815-022-01379-9 [SCI]
3. P V Gopi Krishna Rao, Hanuma Naik R, M.Mahesh, M V Rajasekhara, M Venkata Sudhakar "Simplified design of IMC-Tuned PID Controller for Integrating Process Based on Maximum Sensitivity. In: Kumar, S., Hiranwal, S., Purohit, S D., Prasad, M. (eds) Proceedings of International Conference on Communication and Computational Technologies. Algorithms for Intelligent Systems. [Springer], [https://doi.org/10.1107/978-981-193951-8\\_7](https://doi.org/10.1107/978-981-193951-8_7) [SCI]
4. S. V Ratan Kumar, L. Koteswara Rao, M Kiran Kumar "Design of Ternary Logic Circuits using Pseudo N-type CNTFETs" ECS Journal of Solid-State Science and Technology, The Electrochemical Society ("ECS"), Published on behalf of ECS by IOP Publishing Limited, volume 11, Number 11, Nov 11 2022, DOI :10.1149/2162-8777/ac9ff2 [SCI]
5. S. Priyanka, Diego Oliva, Kethepalli Mallikarjuna, M. S. Sudhakar; "L-Shaped geometry-based pattern descriptor serving shape retrieval", An International Journal of Expert Systems with Applications" (ELSEVIER), Available online 12 November 2022 [SCIE]
6. Y. Madhu Sudhana Reddy, "Capacity Trust Assessment for Multi-hop routing in wireless sensor networks", E3S Web of Conferences 391, 01181 (2023). <http://doi.org/10.1051/e3sconf/202339101181>(Web of Science)

### SCOPUS

1. Vijayarajan Rajangam, N. Sangeetha, Kethepalli Mallikarjuna, "Thresholding-based decision map for CT-MRI fusion in wavelet domain, Int. J. Intelligent Systems Technologies and Applications, Vol. 20, No. 5, 2022. [Scopus]
2. N. Nagaraja Kumar, T. Jayachandra Prasad and K. Satya Prasad P. "Multimodal Medical Image Fusion with Improved Multi-Objective Meta-Heuristic Algorithm with Fuzzy Entropy" Journal of Information & Knowledge Management, world Scientific (August). <https://doi.org/10.1142/S0219649222500630> [Scopus]
3. N. Nagaraja Kumar, T. Jayachandra Prasad and K. Satya Prasad P. "Multimodal Medical Image Fusion with Improved Multi-Objective Meta-Heuristic Algorithm with Fuzzy Entropy" Journal

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Professor & HOD  
Department of ECE  
RGM College of Engg. & Tech. (Autonomous)  
NANDYAL - 518 501, Kurnool (Dist), A.P.



of Information & Knowledge Management, World Scientific  
<https://doi.org/10.1142/S0219649222500630> [Scopus]

4. Venkataiah C, Mallikarjuna Rao Y, Manjula Jayamma, Linga Murthy M K, Mahesh Kumar M, Laith H. Alzubaidi, Akhilesh Pandey "Performance analysis of Ternary Adder and Ternary Multiplier without using Encoders and Decoders", E3S Web of Conferences, Vol 391, 01220 (2023) <https://doi.org/10.1051/e3sconf/202339101220> [Scopus]
5. Venkataiah C, Mallikarjuna Rao Y, Manjula Jayamma, Rambabu S, Linga Murthy MK, Laith H. Alzubaidi, Sanjay Mishra, "Performance analysis of 4-bit ternary adder and multiplier using CNTFET for high speed arithmetic circuits", E3S Web of Conferences, Vol 391, 01221 (2023) <https://doi.org/10.1051/e3sconf/202339101221> [Scopus]
6. Venkataiah C, Mallikarjuna Rao Y, Manjula Jayamma, Linga Murthy M K, Feroz Shah Ahmed S, Laith H. Alzubaidi, "Performance evaluation of SRAM design using different field effect transistors", E3S Web of Conferences, Vol 391, 01185 (2023) <https://doi.org/10.1051/e3sconf/202339101185> [Scopus]
7. Rambabu Sanivarapu, Mallikarjuna Rao Y, Venkataiah C, Linga Murthy MK, Laith H. Alzubaidi, Vyeshikha, "Design and Implementation of POSIT Based Adder and Multiplier in Verilog HDL", E3S Web of Conferences, Vol 391, 01184 (2023), <https://doi.org/10.1051/e3sconf/202339101184> [Scopus]
8. Linga Murthy M K, Divyanjali Modepalli, Maibu Basha Shaik, Madhuri Busi, Venkataiah C, Mallikarjuna Rao Y, Ahmed Alkhayyat, Divya Rawat "Efficient Feature Extraction for Recognition of Human Emotions through Facial Expressions Using Image Processing Algorithms" E3S Web of Conferences, Vol 391, 01182 (2023), <https://doi.org/10.1051/e3sconf/202339101182> [Scopus]
9. Linga Murthy M K, Vinod S, Koundinya S Nagendra Babu G, Venkataiah C, Mallikarjuna Rao Y, Ahmed Alkhayyat, Upasana Rana, "Improving the Accuracy in Lung Cancer Detection Using NN Classifier", E3S Web of Conferences, Vol 391, 01183 (2023) <https://doi.org/10.1051/e3sconf/202339101183> [Scopus]
10. S. V Ratan Kumar, L. Koteswara Rao, M Kiran Kumar "Design of Ternary Multiplier using Pseudo N-type CNTFETs" Russain Microelectronics, volume 52, No:2, pp:119-127, 2023 DOI:10.1134/S1063739723700245 [Scopus]

### International Journals:

1. I.N. Ramanjaneyulu, C. Venkataiah, M. Chennakesavulu, Anchula Sathish "Performance Analysis of Full Adder using Ganged CMOS Threshold Element with Different Technologies" Advancement of Signal Processing and its Applications, Volume 6 Issue 1, HBRP publication, Page 1-7, February, 2023.  
<https://doi.org/10.5281/zenodo.7642942>
2. 2.N. Ramanjaneyulu, C. Venkataiah, M. Chennakesavulu, Anchula Sathish, "Performance analysis of Full Adder using  $\beta$ -Driven Threshold Element with Different Technologies" Journal





of Control System and its Recent Developments, Volume 6 Issue 1, HBRP publication, Page 16-23, February, 2023.

<https://doi.org/10.5281/zenodo.7638241>

3. C. Venkataiah, M. Chennakesavulu, N. Ramanjaneyulu, Y. Mallikarjuna Rao, Anchula Sathish, Manjula Jayamma “ Ternary logic full adder circuit using 3x1 multiplexer ” Journal of advancement in electronics design, volume 6, issue 1, HBRP publication, page 1-9, January, 2023. <https://doi.org/10.5281/zenodo.7588790>
4. C. Venkataiah, D. Rajesh setty, N. Ramanjaneyulu, Y. Mallikarjuna Rao “Crosstalk peak overshoot analysis of VLSI interconnects” International Journal of Emerging Research in Engineering, Science, and Management Vol. 2, Issue 1, pp.08-12, Jan-Mar 2023. <https://doi.org/10.58482/ijeresm.v2i1.2>
5. C. Venkataiah, Anchula Sathish, N. Ramanjaneyulu, Y. Mallikarjuna Rao “Peak overshoot analysis of on-chip interconnects for different technologies” Journal of advancement in communication systems, volume 6, issue 1, HBRP publication, page 1-7, January, 2023. <https://doi.org/10.5281/zenodo.7543867>
6. C. Venkataiah, Anchula Sathish, N. Ramanjaneyulu, Y. Mallikarjuna Rao “Crosstalk noise analysis of on-chip interconnects” Journal of advancement in communication systems, volume 6, issue 1, HBRP publication, page 1-6, January, 2023. <https://doi.org/10.5281/zenodo.7543712>
7. C. Venkataiah, Manjula jayamma, Y. Mallikarjuna Rao, N. Ramanjaneyulu, Anchula Sathish, “Advanced technique for performance improvement in VLSI interconnects” Journal of VLSI Design and signal processing, Volume 9, Issue 1, MAT Journals, page 1-6, January-April, 2023. e-ISSN: 2581-8449

### International Conferences:

1. Mrs.M.Maheswari et.al have presented a paper on “A Study On Cnfet Quaternary Logic ” in International Conference on Emerging Trends in Electronics and Communication Engineering(ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal
2. Mr.Palle Rangappa and Dr.Anchula Sathish have presented a paper on “Comparative Analysis of Hybrid Logic Style Full Adders in Multistage Structures” in International Conference on Emerging Trends in Electronics and Communication Engineering (ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal.
3. *Mr.Kanike Vijay kumar, and Dr.Anchula Sathish have presented a paper on “A Novel Approach for Enhancement of Remote Satellite ImageFusion Based On Cascaded Principle Component Analysis & Shift Invariant Wavelet Transforms” in International Conference on Emerging Trends in Electronics and Communication Engineering (ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal.*
4. Dr.J.Sofia Priya Darshini et.al. have presented a paper on “Enhancement and Dehazing of Images for Real Time Applications” in International Conference on Emerging Trends in Electronics and Communication Engineering (ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal.



5. Dr.J.Sofia Priya Darshini et.al. have presented a paper on “Multi-Focus frame work for Image Fusion” in International Conference on Emerging Trends in Electronics and Communication Engineering (ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal
6. Mrs.R.Sireesha, Mrs.V.Saraswathi, Mrs.B.Geetha Rani et.al have presented a paper on “A Remote Monitoring And Control Approach Based On IoT For Automated Vehicles” in International Conference on Emerging Trends in Electronics and Communication Engineering(ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal.
7. Mrs.R.Sireesha et,al have presented a paper on “Clustering Based Emotional Speech Recognition using Fuzzy and K-Means for Tamil Language” in International Conference on Emerging Trends in Electronics and Communication Engineering (ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal.
8. Mrs.R.Sireesha et,al have presented a paper on “Dual Source based Wireless Charging System for Electric Vehicles” in International Conference on Emerging Trends in Electronics and Communication Engineering (ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal.
9. Dr.C.Venkataiah, Dr.V.N.V.Satya Prakash, Dr.N.Ramanjaneyulu, et.al. have presented a paper on “Design and Performance Analysis of CNTFET Based Ternary Encoders for Next Generation Communication Systems” in International Conference on Emerging Trends in Electronics and Communication Engineering (ICETEC)-2023 conducted by ECE Department, RGM CET, Nandyal.

Dr. KETHEPALLI MALLIKARJUNA  
B.E, M.Tech, Ph.D, MISTE, FIETE, MIE  
Professor & HOD  
Department of ECE  
RGM College of Engg. & Tech. (Autonomous)  
NANDYAL - 518 501, Kurmool (Dist), A.P.

Dr. T. JAYACHANDRA PRASAD  
M.E., Ph.D.,  
PRINCIPAL  
R G M College of Engg. & Tech.,  
(Autonomous)  
NANDYAL-518 501, Nandyal (Dt), A.P.



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2021-22	16	00	05	00	01	00	00	00	22

S.No.	Publications	Total
1	International Journals	00
2	SCI& SCIE/ESCI	16
3	Scopus	05
4	IEEE Conference/IET Conferences (Scopus)	01
5	Books	00
6	Book Chapters& Scopus	00

*K Mallikarjuna*  
 Dr. KETHEPALLI MALLIKARJUNA  
 B.E, M.Tech, Ph.D, MISTE, FIETE, MIE  
 Professor & HOD  
 Department of ECE  
 RGM College of Engg. & Tech. (Autonomous)  
 NANDYAL - 518 501, Kurnool (Dist), A.P.

*T Jayachandra Prasad*  
 Dr. T. JAYACHANDRA PRASAD  
 M.E, Ph.D.,  
 PRINCIPAL  
 R G M College of Engg. & Tech.,  
 (Autonomous)  
 NANDYAL-518 501, Nandyal (Dt), A.P.



**SCI/SCIE:**

1. M. Chennakesavulu, T.Jayachandra Prasad, V. Sumalatha, , “Data encoding techniques to improve the performance of System on Chip”, Journal of King Saud University – Compute and Information Sciences, Elsevier, Volume:34, Issue:2, ISSN/ISBN No. 1319-1578 Year: Feb-2022, <https://doi.org/10.1016/j.jksuci.2018.12.003> IF(13.473) [SCIE]
2. M. Chennakesavulu, T.Jayachandra Prasad, V. Sumalatha, , “Data encoding techniques to improve the performance of System on Chip”, Journal of King Saud University – Compute and Information Sciences, Elsevier, Volume:34, Issue:2, ISSN/ISBN No. 1319-1578 Year: Feb-2022, <https://doi.org/10.1016/j.jksuci.2018.12.003> IF(13.473) [SCIE]
3. Sanjib Kalita,, “ Investigation to Enhance the DC and RF Performances of Nitride-Based Nanoelectronic HEMTs ,NIScPR-CSIR,India,Page No: 619-628,ISSN: 0975 -0959 (Online) ; 0301-1208(Print), <http://nopr.niscair.res.in/handle/123456789/58133>, Issue date : Sep 2021. [SCI]
4. Sanjib Kalita, Kethepalli Mallikarjuna; “A Dielectrically Modulated AlGaN/InN/GaN Nano Electronic High Electron Mobility Transistor Based Biosensor for Protein Detection”, Indian Journal of Pure and Applied Physics, Accepted on 14-01-2022. <https://doi.org/10.56042/ijpap.v60i2.54619> [SCI]
5. Sanjib Kalita, Kethepalli Mallikarjuna; “A Dielectrically Modulated AlGaN/InN/GaN Nano Electronic High Electron Mobility Transistor Based Biosensor for Protein Detection”, Indian Journal of Pure and Applied Physics, Accepted on 14-01-2022 <https://doi.org/10.56042/ijpap.v60i2.54619> [SCI]
6. Shivendra Yadav, Mohammad Aslam, Vivek Garg, Pallerla Joseph Ritesh Reddy, “Design Analysis of Ohmic Junction Based Tunnel FET”, Silicon, Springer, Published Online :24 march 2022 , <https://doi.org/10.1007/s12633-022-01803-7>. [SCI]
7. Sadanand Yadav, “3D-Multilayer Magneto-Inductive Transceiver Coil Structure and Optimal Placement of Relays for Non-Conventional Media”, Wireless Networks, Published by Springer Nature, Online ISSN: 1572-8196 DOI:[10.1007/s11276-022-02949-3](https://doi.org/10.1007/s11276-022-02949-3). [SCI]
8. Sofia Priyadarshini “Optimized NOMA System using Hybrid Coding and Deep Learning – Based Channel Estimation” ACM TOMM, Submitted on Thu, Mar 24, 2022, TOMM-2022-0174, (under Communication) [SCI]
9. Sameer Yadav, Pranshoo Upadhyay, Bhaskar Awadhiva, “Ferroelectric Negative-Capacitance-Assisted Phase-Transition Field-Effect Transistor”, Published in: IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control ( Volume: 69, Issue: 2, Feb. 2022), Page(s): 863 – 869, INSPEC Accession Number: 21572573, Publisher: IEEE, Print ISSN: 0885-3010, Electronic ISSN: 1525-8955, DOI: [10.1109/TUFFC.2021.3130194](https://doi.org/10.1109/TUFFC.2021.3130194). [SCI]





10. Rajeeva Kumar Jaisawal P , N.Kondekar Sameer, Yadav Pranshoo Upadhyay, Bhaskar Awadhiya , Sunil Rathore, “Insights into the operation of negative capacitance FinFET for low power logic applications, [Microelectronics Journal](#) , [Volume 119](#), January 2022, 105321, ISSN: 0026-2692, Impact Factor: 1.605 <https://doi.org/10.1016/j.mejo.2021.105321> [SCI]
11. Rajeeva Kumar Jaisawal , Sunil Rathore , Pravin N Kondekar , Sameer Yadav , Bhaskar Awadhiya , Pranshoo Upadhyay and Navjeet Bagga , “Assessing the analog/RF and linearity performances of FinFET using high threshold voltage techniques, [Semiconductor Science and Technology](#), [Volume 37](#), [Number 5](#), Published 8 April 2022 • © 2022 IOP Publishing Ltd. DOI [10.1088/1361-6641/ac6128](#) [SCI]
12. Bhaskar Awadhiya, Pravin N. Kondekar, Sameer Yadav, Pranshoo Upadhyay, Rajeeva Kumar Jaisawal, Sunil Rathore, “Effect of Scaling on Passive Voltage Amplification in FE-DE Hetero Structure”, 2021 International Conference on Control, Automation, Power and Signal Processing (CAPS) ,978-1-6654-4577-1/21/\$31.00 ©2021 IEEE , DOI: 10.1109/CAPS52117.2021.9730503. [SCI]
13. Rajeeva Kumar Jaisawal, Sunil Rathore, Bhaskar Awadhiya, Pravin N Kondekar , Sameer Yadav, Pranshoo Upadhyay, Navjeet Bagga, “Assessing the analog/RF and linearity performances of FinFET using high threshold voltage techniques”, [Semiconductor Science and Technology](#). 37 (2022) 055010, Published 8 April 2022 , IOP Publishing, <https://doi.org/10.1088/1361-6641/ac6128>. [SCI]
14. Sameer Yadav, P.N.Kondekar, Pranshoo Upadhyay, Bhaskar Awadhiya, “Negative capacitance based phase-transition FET for low power applications: Device-circuit co-design”, [Microelectronics Journal](#), Available online 14 March 2022, 0026-2692/© 2022 Elsevier Ltd, <https://doi.org/10.1016/j.mejo.2022.105411> [SCI]
15. Bhaskar Awadhiya, Sameer Yadav, Pranshoo Upadhyay, Pravin N. Kondekar, “Effect of back gate biasing in negative capacitance field effect transistor”, [Micro and Nanostructures](#), Available online 19 April 2022, 2773-0123/© 2022 Published by Elsevier Ltd. <https://doi.org/10.1016/j.micrna.2022.207226>. [SCI]
16. Shivendra Yadav, Bhaskar Awadhiya, Akshay Mittal, “Ohmic Junction Based Tunnel FET for High Frequency and Low Power Applications”, [Silicon](#), Springer , Published Online :05 May 2022, <https://doi.org/10.1007/s12633-022-01905-2> [SCI]

ESCI: NIL

SCOPUS:

1. Vijarajan Rajangam, Sangeetha N, Kethepalli Mallikarjuna; “ Thresholding Based Decision Map for CT-MRI Fusion in Wavelet Domain”, [International Journal of Intelligent Systems Technologies and Applications](#), Accepted on Febrary 2022 <https://doi.org/10.1504/ijista.2022.125607> [Scopus]



2. C Venkataiah, N Ramanjaneyulu, Y Mallikarjuna Rao, VNV Prakash, MK Murthy, N Sreenivasa Rao, "[Design and performance analysis of buffer inserted on-chip global nano interconnects in VDSM technologies](#)", Nanotechnology for Environmental Engineering, Springer International Publishing, Pages 1-7, Publication date: 2022/5/11, DOI:[10.1007/s41204-022-00249-x](#). [Scopus]
3. Yarragudi Madhu Sudhana Reddy, Ramaswami Sachidanandan Ernest Ravindran "Retinal Image Lesions Assisted Diabetic Retinopathy Screening System Through Machine Learning" , *International Journal of Intelligent Engineering and Systems*, Vol.15, No.2, 2022, DOI: 10.22266/ijies2022.0430.17. [Scopus]
4. C Venkataiah, N Ramanjaneyulu, Y Mallikarjuna Rao, VNV Prakash, MK Murthy, N Sreenivasa Rao, "[Design and performance analysis of buffer inserted on-chip global nano interconnects in VDSM technologies](#)", Nanotechnology for Environmental Engineering, Springer International Publishing, Pages 1-7, Publication date: 2022/5/11, DOI: [10.1007/s41204-022-00249-x](#) [Scopus]
5. C Venkataiah, N Ramanjaneyulu, Y Mallikarjuna Rao, VNV Prakash, MK Murthy, N Sreenivasa Rao, "[Design and performance analysis of buffer inserted on-chip global nano interconnects in VDSM technologies](#)", Nanotechnology for Environmental Engineering, Springer International Publishing, Pages 1-7, Publication date: 2022/5/11, DOI: [10.1007/s41204-022-00249-x](#). [Scopus]

### IEEE CONFERENCES:

1. [Nishant Sharan](#), [S.K Ghorai](#), [Ajit Kumar](#), "PAPR reduction using a Precoder and Compander combination in a NOMA-OFDM VLC system", Date of Conference: 12-14 February 2022, Published in: [2022 2nd International Conference on Artificial Intelligence and Signal Processing \(AISP\)](#), Electronic ISBN:978-1-6654-4290-9 Print on Demand(PoD) ISBN:978-1-6654-4291-6, DOI: [10.1109/AISP53593.2022.9760659](#).

  
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NANDYAL - 518 501, Kurnool (Dist), A.P.

*T. Jayachandra Prasad*

Dr. T. JAYACHANDRA PRASAD  
Page 10  
M.E, Ph.D.,  
PRINCIPAL  
R G M College of Engg. & Tech.,  
(Autonomous)  
NANDYAL-518 501, Nandyal (Dt), A.P.





SCI/SCIE:

1. Shivendra Yadav, Anuj, Anju Gedam, Guru Prasad Mishra and Mohd. Aslam, "Linearity/Intermodulation Distortion Analysis of Tunneling and Thermionic Emission Mechanisms; Design Proposal and High Frequency Investigation", Semiconductor Science and Technology, Aug 2020. <https://doi.org/10.1088/1361-6641/abaaec> [SCI]
2. D. Maruthi Kumar, D. Satyanarayana, M. N. Giri Prasad "Improved Rough-fuzzy C-means Clustering and Optimum Fuzzy Interference System for MRI Brain Image Segmentation", IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 12, No. 8, 2021. <https://doi.org/10.1007/s12652-020-02444-7> [SCI]
3. Shivendra Yadav, Anju, and Sukeshni Turkey, "A Dielectric Modulated Biosensor for SARS-CoV-2", IEEE Sensor Journal, Aug 2020. DOI 10.1109/JSEN.2020.3019036 [SCI]
4. K. Vanitha, D. Satyanarayana and M.N.G. Prasad "Multi-modal Medical Image Fusion Algorithm Based on Spatial Frequency Motivated PA-PCNN in the NSST Domain", Bentham Science Current Medical Imaging, 2021, Vol 17, PP: 634-643. DOI: 10.2174/1573405616666201118123220 [SCI]
5. Kethepalli Mallikarjuna, Beepar Abdul Raheem, Govindaraj Pathanadka, Sudhakar Mogappair Suriya kumar; "A Simple Shape Descriptor Merging Arithmetical WrapAround Technique with Absolute Localized Pixel Differences", Wireless Personal Communications An International Journal, DOI 10.1007/s11277-020-07991-y Journal ISSN 0929-6212 , Published online 28 Nov 2020.[SCI]
6. Nagaraja Kumar N, et al, "Optimized Dual tree complex wavelet transform & fuzzy entropy for multimodal medical image fusion: A hybrid metaheuristic concept", Journal of Mechanics in medical and biology vol.21.no.3, 2150024(2021), Published on March 2021 DOI: 10.1142/S021951942150024X [SCI].
7. D Maruthi Kumar, D.Satya Narayana & M.N. Giri Prasad "An improved Gabor wavelet transform and rough K-means clustering algorithm for MRI brain tumor image segmentation", Multimedia Tools and Applications ,Volume 80, Issue 5Feb 2021 ,pp 6939-6957, <https://doi.org/10.1007/s11042-020-09635-6> .[SCI]
8. Jaya Chandra Prasad Talari, et al, "Optimized Dual tree complex wavelet transform & fuzzy entropy for multimodal medical image fusion: A hybrid meta heuristic concept", Journal of Mechanics in medical and biology vol.21.no.3, 2150024 (2021), Published on March 2021 DOI: 10.1142/S021951942150024X, [SCI]
9. Sanjib kalita, et al," Comparative studies on the DC and RF performances of conventional HEMT and double quantum well heterostructure" Optical and Quantum Electronics (2021) 53:98 <https://doi.org/10.1007/s11082-021-02750-0> [SCI]
- 10 Bhaskar Awadhiya et al, "Design and Analysis of Improved Phase-Transition FinFET Utilizing Negative Capacitance" IEEE Transcations on Electron Devices Vol.68 No.2 Feb 2021. <https://www.ieee.org/publications/rights/index.htm> [SCI]





3. Dr. D. Muruganandam, Dr. J. Jayapriya Subramanian r , Dr. P. V. Gopi krishna rao , Dr. Y. Dileep kumar “A Device To Peel Fodders Skin”, OFFICIAL JOURNAL OF THE PATENT OFFICE, 47/2020, pp 59007, November 2020 . [Patent]
4. Dr. J Sofia Priya Darshini Published A Paper Title “Image Processing Techniques for Surface Crack Detection in Buildings” Patent Application Publication. Application No: 202141036294 A Published on : 24/09/2021. [Patent]
5. Dr. D. Muruganandam , Dr. J. Jayapriya, Dr. P. V. Gopi Krishna Rao, “A method and device for the deformation of the waste containers through The pneumatic operated”, OFFICIAL JOURNAL OF THE PATENT OFFICE, 50/2020, pp. 61762 December 2020. [Patent]

## IEEE CONFERENCES

1. [Kanike Vijay Kumar](#); [Anchula Sathish](#) , A Comparative Study of Various Multimodal Medical Image Fusion Techniques– A Review, **IEEE** Seventh International conference on Bio Signals, Images, and Instrumentation, <https://doi.org/10.26782/jmcms.spl.5/2020.01.00007> (ICBSII-2021) Mar 2021.
2. Nishant Sharan, S.K Ghorai, Ajit Kumar, “PAPR Reduction using blend of Precoder and  $\mu$ -law Componder in HACO System”, 2021 International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC), 978-1-6654-4299-2/21, **IEEE**, DOI: 10.1109/AESPC52704.2021.9708501

## BOOK CHAPTERS

2. Dr. V Ramesh Kumar, Dr. M. Ramana Reddy, “Bilayer Graphene Nanoribbon Tunnel FET for low power Nano Scale IC Design” DOI: 10.1049/PBCS073G-ch10 Springer. Book DOI: 10.1049/PBCS073G (Scoups)
3. Vijarajan Rajangam, Sangeetha N, Karthik R, Kethepalli Mallikarjuna;, “Performance Analysis of VGG19 Deep Learning Network Based Brain Image Fusion”, Chapter 8, Handbook of Research on Deep Learning-Based Image Analysis Under Constrained and Unconstrained Environments, A Volume in the Advances in Computational Intelligence and Robotics (ACIR) Book Series, IGI Global Publisher of Timely Knowledge, pp 145-166, Dec 2020. DOI: 10.4018/978-1-7998-6690-9.ch008 [Scoups]

Dr. KETHEPALLI MALLIKARJUNA  
B.E, M.Tech, Ph.D, MISTE, FIETE, MIE  
Professor & HOD  
Department of ECE  
RGM College of Engg. & Tech. (Autonomous)  
NANDYAL - 518 501, Kurnool (Dist), A.P.