

## Research Publications in 2021

1. Nonita Sharma Jaiditya Dev · Monika Mangla, · Vaishali Mehta Wadhwa, Sachi Nandan Mohanty, · Deepti Kakkar., **“A Heterogeneous Ensemble Forecasting Model for Disease Prediction”**, *New Generation Computing*, 2021, 0288-3635, Web of Science/Scopus.
2. Suman Avani, Shaila S G and A Vadivel., **“Interval Graph of Facial Regions with Common Intersection Salient Points for Identifying and Classifying Facial Expression”**, *Multimed Tools and Applications*, 2021, ISSN: 1380-7501, 1573-7721, UGC Care/Web of Science/Scopus.
3. Sandeep Kumar Panda, Siba Prasad Dash, and Ajay Kumar Jena, **“Optimization of Block Query Response Using Evolutionary Algorithm”**, *Data Engineering and Intelligent Computing*, 2021, ISSN: 2194-5357, Others (Research Gate/Ebscohost).
4. Sandeep Kumar Panda, D. Chandrasekhar Rao, and Suresh Chandra Satapathy, **“An Investigation into the Usability of Blockchain Technology in Internet of Things”**, *Data Engineering and Intelligent Computing*, 2021, ISSN: 2194-5357, Others (Research Gate/Ebscohost).
5. Nagaraju Gajjela, Raj Nandkeolyar, **“Investigating the magnetohydrodynamic flow of a couple stress dusty fluid along a stretching sheet in the presence of viscous dissipation and suction”**, *Heat Transfer*, 2021, ISSN:2688-4542, UGC Care/Web of Science/Scopus.
6. Sarit Chanda, Surendra Nadh Somala, **“Uncertainty Quantification of Structural Response Due to Earthquake Loading.”**, *Lecture Notes in Civil Engineering (Book Chapter)*, 2021, Print ISBN: 978-3-030-80311-7, Electronic ISBN: 978-3-030-80312-4, Others (Goggle Scholar/Ebscohost).
7. Grandhi Suresh Kumar, Pratik Gite, M. Prasad, Madijagan M, S. Selvakanmani, V. Saravanan, **“Design of Autonomous Production Using Deep Neural Network for Complex Job-Shops”**, *International Journal of Grid and Distributed Computing*, 2021, ISSN: 2005-4262 (Online), Web of Science/Scopus.
8. Rajesh Kumar Sahoo, Morched Derbali\*, Housseem Jerbi, Doan Van Thang, P. Pavan Kumar, Sipra Sahoo, **“Test Case Generation from UML-Diagrams Using Genetic Algorithm”**, *Computers, Materials & Continua*, 2021, ISSN: 1546-2218 (Print) · ISSN: 1546-2226 (Online), UGC Care/Web of Science/Scopus.
9. Manmadhachary A, Adityamohan Alwala, Haranadha Reddy M, **“Manufacturing of custom-made implants for orbital fractures using 3D printing”**, *Bioprinting*, 2021, , UGC Care/Scopus.
10. U. Ravikiran , P. Sarah & Elizabeth Zacharias *Ferroelectrics* February, 0, VOL. , –, Publisher: Taylor and Francis WoS (SCI) and Scopus, **“Electrical studies on Na and Sm substituted strontium bismuth titanate (SBTi) ceramics”**, *Ferroelectrics*, 2021, Print ISSN: 0015-0193, Others (Goggle Scholar/Ebscohost).
11. RavikiranU, SarahP, A.R.James, ElizabethZacharias, **“Investigation of the role of Sm, Na in ferroelectric, piezoelectric and conduction behaviour of Strontium Bismuth Titanate ceramics”**, *SOLID STATE COMMUNICATION*,, 2021, ISSN: 0038-1098, Web of Science/Scopus.
12. Kishore K Kumar and Movva Pavani, **“Design of RF Planar Slow Wave Interaction Structure for THz Devices”**, *International Journal of Computer Aided Engineering and Technology*, 2021, ISSN online 1757-2665, ISSN print 1757-2657, Web of Science/Scopus.

13. Amrendra Singh Yadav, Nikita Singh & Dharmender Singh Kushwaha, **"A scalable trust based consensus mechanism for secure and tamper free property transaction mechanism using DLT"**, *International Journal of System Assurance Engineering and Management*, 2021, 0976-4348, Others (Proquest).
14. Sandeep Kumar Panda, **"Drug Traceability and Transparency in Medical Supply Chain using Blockchain for easing the process and creating trust between Stakeholders and Consumers"**, *Personal and Ubiquitous Computing*, 2021, ISSN. 1617-4909, 1617-4917, Others (Goggle Scholar/Ebscohost).
15. M L P Kishore, Vijay K Singh, R K Behra, Chandra S Saran, Manikant Paswan, Kapil Kumar., **"Hydrodynamic characteristics of marine composite propeller blade using a numerical approach"**, *International Journal of Advances in Applied Sciences (IJAAAS)*, 2021, EISSN: 2313-3724, Print ISSN: 2313-626X, Others (Goggle Scholar/Ebscohost).
16. Rudrarapu Aravind, Gouri Sankhar Brahma, Trilochan Swain, **"Heat repellent behavior of cobalt-based imidazole containing phosphate and meta-phosphate complex mixtures"**, *International Journal of Energy Research*, 2021, 1099-114X, Others (Goggle Scholar/Ebscohost).
17. Rudrarapu Aravind, Gouri Sankhar Brahma, Trilochan Swain, Akash Kumar Sahu, **"Synthesis, characterization and thermal property of Nickel-Molybdenum mixed metal complex mixture"**, *Material Today: Proceedings*, 2021, ISSN 2214-7853., UGC Care/Web of Science/Scopus.
18. Rudrarapu Aravind, Gouri Sankhar Brahma, Trilochan Swain, Akash Kumar Sahu, **"Co-Mo nano-composite material: Synthesis, characterization and thermal behaviour"**, *Material Today: Proceedings*, 2021, ISSN 2214-7853., UGC Care/Web of Science/Scopus.
19. Akash Kumar Sahu, Gouri Sankhar Brahma, Trilochan Swain, Rudrarapu Aravind, **"Phosphate based mixture of Mn and Mg: Thermal energy storage materials"**, *Material Today: Proceedings*, 2021, ISSN 2214-7853., UGC Care/Web of Science/Scopus.
20. J.Pavan Kumar, et al., **"Algorithmic Aspects of Certified Domination in Graphs"**, *Communications in Combinatorics and Optimization*, 2021, ISSN 2538-2136 (Online), Others.
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22. T. Shreecharan and S. Sree Ranjani, **"Generalized coherent states of exceptional Scarf-I potential: Their spatio-temporal and statistical properties"**, *Reviews of Mathematical Physics*, 2021, ISSN (print): 0129-055X | ISSN (online): 1793-6659, UGC Care/Web of Science/Scopus.
23. Kalidasu Sheelam, Sridhar Chidara, Srilalitha Vinnakota, Ravikumar Polothi, **"Highly efficient approach to the total synthesis of flavoxate hydrochloride"**, *Chemical data collections*, 2021, ISSN: 2405-8300., UGC Care/Web of Science/Scopus.
24. Harinadh Vemanaboina, Nagendra Kumar Kotthinti, Venugopal Chittamsetty, **"Multipass dissimilar joints for SS316L to Inconel625 using gas tungsten arc welding"**, *Material Today: Proceedings*, 2021, ISSN 2214-7853., UGC Care/Web of Science /Scopus.
25. Harinadh Vemanaboina, Chittamsetty Venugopal, Nagendra Kumar Kotthinti, **"Thermal and mechanical analysis of multipass SS316L using GTAW process"**, *Material Today: Proceedings*, 2021, ISSN 2214-7853., UGC Care/Web of Science/Scopus.

26. K. Ramesh, Deepesh Patidar, Odelu Ojjela, **“Entropy generation analysis of free convection radiative MHD Eyring–Powell fluid flow between porous parallel plates with Soret and Dufour effects”**, *Heat Transfer—Asian Research*, 2021, 2688-4534, UGC Care/Web of Science/Scopus.
27. Sudheer Hanumanthakari, **“Comparative Analysis of Different Types of Membership Functions for Fuzzy Logic Controller in Direct Torque Control of Induction Motor”**, *Lecture Notes in Electrical Engineering book series (LNEE, volume 702)*, 2021, ISSN: 1876-1100, UGC Care/Web of Science/Scopus.
28. P. Rohini, L. K. Rao, Rahman, **“Image Pattern Recognition, Fundamentals and Applications”**, *Journal: International Journal of Computer Applications in Technology (IJCAT)*, 2021, ISBN 9780367642167, UGC Care/Web of Science/Scopus.
29. Akash Kumar Sahu, Gouri Sankhar Brahma, Trilochan Swain, Rudrapu Aravind, **“Thermal application of composites of Iron and Magnesium in Thermosyphon Solar Water Heating System”**, *Journal: Heat Transfer*, 2021, Online ISSN: 2688-4542, UGC Care/Web of Science/Scopus.
30. Swapna Samala, Gouri Sankhar Brahma, Trilochan Swain, **“Synthesis and Characterization of a complex mixture based on cobalt and tin and study of its application towards production of hydrogen gas from ethanol”**, *IOP Conference Series Materials Science and Engineering*, 2021, Online ISSN: 1757-899X, Others (Goggle Scholar/Ebscohost).
31. Shaik Himam Saheb, **“Kinematic Performance Analysis of 3-DOF 3RRR Planar Parallel Manipulator”**, *Advances in Intelligent Systems and Computing*, 2021, ISSN: 2194-5357, UGC Care/Scopus.
32. Moinuddin, S.Q., Hameed, S.S, Dewangan, A.K., Kumar, R. and Kumari, S., **“A Study on Weld Defects Classification in Gas Metal Arc Welding Process using Machine Learning Techniques”**, *Materials Today Proceedings*, 2021, ISSN 2214-7853., Web of Science/Scopus.
33. R Aravind, Gouri Sankhar Brahma, **“Synthesis, characterization of imidazole-based copper complex mixtures and study of their thermal behaviour”**, *International Journal of Energy Research*, 2021, ISSN: 0363-907X (print); 1099-114X (web), UGC Care/Web of Science/Scopus.
34. Rajesh Kumar Jha, Prashant Singh, **“Fabrication and characterization of Sr<sub>0.8</sub>Bi<sub>2.2</sub>Ta<sub>2</sub>O<sub>9</sub> /Al<sub>2</sub>O<sub>3</sub> gate stack for ferroelectric field effect transistors”**, *Applied Physics A, Materials Science & Processing*, 2021, ISSN: 14320630, 09478396, Web of Science/Scopus.
35. Chandra Shekhar, Praveen Deora, Shreekant Varshney, Kunwar Pal Singh, Dinesh Chandra Sharma, **“Optimal Profit Analysis of Machine Repair Problem with Repair in Phases and Organizational Delay”**, *International Journal of Mathematical, Engineering and Management Sciences*, 2021, ISSN: 2455-7749, Others (Goggle Scholar/Ebscohost).
36. Manmadhachary A, Aditya Mohan, Haranadha Reddy M, **“Manufacturing of customized implants for orbital fractures using 3D printing”**, *Bio printing Journal*, 2021, 2405-8866, Web of Science/Scopus.
37. Sanjukta Ghosha, Doan Van Thang, Suresh Chandra Satapathy, and Sachi Nandan Mohanty., **“Fuzzy rule based cluster analysis to segment consumers’ preferences to eco and non-eco friendly products”**, *International Journal of Knowledge-based and Intelligent Engineering Systems*, 2021, 1327-2314, Web of Science/Scopus.

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39. A Chandrashekhar, Santhosh Kumar B M, Rajesh A S, Mahesh Kumar A S ,Dr Mangesh Sheshrao Kharate, Bharath M N, **“Portrayal Assessment Of Industrial Mechanization Invention Line In The Framework Of Reinforcement Learning”**, *Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 12, Issue 3*, 2021, 2780-2790, Others.
40. Dr.A Chandrashekhar, Gangu Rama Naidu, Dr.Santosh Kumar, Dr.Sampada Gulavani, Dr.Manoj Sharma, Dr.Dhirendra Kumar Shukla,, **“Automated Classification and Detection of Brain Tumor using Wavelet Transform and Machine Learning”**, *Design Engineering*, ISSN: 0011-9342 Issue: 7 / Pages: 11847 – 11854, 2021, ISSN: 0011-9342, Others.
41. Manorama Devi, B., Vemuri, S., Chandrashekhar, A., C., S., Nandankar, P.V. and Kundu, P., **“Impact of COVID-19 pandemic and the diagnosis of the virus in the human body”**, *World Journal of Engineering*, Vol. ahead-of-print No. ahead-of-print, 2021, ISSN:1708-5284, UGC Care/Web of Science/Scopus.
42. Pramod Narayan Tripathi; Sanjeev Kumar Ojha; Rajesh Kumar Jha; Alexey Nazarov, **“Investigation of BiFeO<sub>3</sub>/HfO<sub>2</sub> Gate Stack for Ferroelectric Field Effect Transistors in IOT Applications”**, *Journal of Materials Science: Materials in Electronics*, Springer(32, 2021, ISSN: 09574522, 1573482X, Others (Goggle Scholar/Ebscohost).
43. Mohammed Ather Patel, Shaik Himam Saheb, **“Study on Design and Analysis of Industrial Y Type Strainer”**, *IOP Conf. Series: Materials Science and Engineering Vol: 1126 IOP Publishing.*, 2021, ISSN: 1757-899X, Print ISSN: 1757-8981, Others (Goggle Scholar/Ebscohost).
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51. K. Kishore Kumar and Movva Pavani, **“Design of master controller test kit for the railway diesel locomotives”**, *International Journal of Intelligent Enterprise*, 2021, 1745-3240, UGC Care/ Scopus.
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