

Research Publications in 2020

1. S. Vairachilai, M. K. Kavitha Devi and M. Raja, "**Analysis of Statistical and Structural Properties of Complex networks with Random Networks**", *Applied Mathematics & Information Sciences An International Journal*, 2020, 2325-0399, Scopus.
2. Shaik Himam Saheb and Javvaji Vijay Kumar, "**A comprehensive review on additive manufacturing applications**", *AIP Conference Proceedings*, 2020, ISSN:1070-664X (print) 1089-7674 (web), UGC Care/Web of Science/Scopus.
3. Tingarikar Govardhan and Achinthya Choudhury, "**Amplitudes of components in vibration spectra of rolling bearings with localized defects under harmonic loads**", *Journal of Vibration and Control*, 2020, 1741-2986, UGC Care/Web of Science/Scopus.
4. Shaik Himam Saheb, Vinay Kumar Durgam, , A Chandrashekhar, "**A review on metal powders in additive Manufacturing**", *AIP Conf. Proc.*, 2020, 0094-243X (print); 1551-7616 (web), UGC Care/Scopus.
5. Sudarshan E., K. Seena Naik and P. Pavan Kumar, "**Parallel approach for backward coding of wavelet trees with CUDA**", *ARNP Journal of Engineering and Applied Sciences*, 2020, 1819-6608, UGC Care/Scopus.
6. G. Sudhaamsh Mohan Reddy, "**SOME FIXED POINT THEOREMS FOR MODIFIED JS-G-CONTRACTIONS AND AN APPLICATION TO INTEGRAL EQUATIONS**", *Journal of applied mathematics & informatics*, 2020, 2734-1194, Others.
7. Chinmaya Ranjan Pattnaik, Sachi Nandan Mohanty, Sarita Mohanty, Jyotir Moy Chatterjee, Biswajit Jana, Vicente Garcia Diaz, "**A Fuzzy Multi-Criteria Decision-Making method for Purchasing Life Insurance in India,**", *Bulletin of EEI Stats*, 2020, 2302-9285, Others.
8. Murali Krishna Rao Marapureddy and DPRV Subba Rao, "**WEAK-INTERIOR IDEALS OF Γ -SEMI-RINGS**", *BULLETIN OF THE INTERNATIONAL MATHEMATICAL VIRTUAL INSTITUTE*, 2020, 2303-4955, Others.
9. Avinash Malladi, "**Structural exploration for materials' validity of suspension manifold of two-wheeler**", *AIP Conf. Proc.*, 2020, 0094-243X (print); 1551-7616 (web), UGC Care/Scopus.
10. Mamta Garanayak, Sipra Sahoo, Sachi Nandan Mohanty, Alok Kumar Jagadev, , "**An Automated Recommender System for Educational Institute in India**", *EAI Endorsed Transactions on Scalable Information System (2020)*, 24(2),, 2020, ISSN: 2032-9407, Web of Science.
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12. Bassam A. Y. Alqaralleh, Sachi Nandan Mohanty, Deepak Gupta, Ashish Khanna, , K. Shankar, and Thavavel Vaiyapuri, "**Reliable Multi-Object Tracking Model using Deep Learning and Energy Efficient Wireless Multimedia Sensor Networks**", *IEEE ACCESS*, 2020, 2169-3536, UGC Care/Web of Science/Scopus.
13. Sirisha Potluri; Monika Mangla; Suneeta Satpathy; Sachi Nandan Mohanty, "**Detection and Prevention Mechanisms for DDoS Attack in Cloud Computing Environment**", *IEEE ACCESS*, 2020, 2169-3536, UGC Care/Web of Science/Scopus.

14. Xiaobo Zhang, Sachi Nandan Mohanty, Ajay Kumar Parida, Subhendu Kumar Pani, **“Annual and on-monsoon rainfall prediction modeling using SVR-MLP: An empirical study from Odisha”**, *IEEE Access*, (2020),, 2020, ISSN: 2169-3536, UGC Care/Web of Science/Scopus.
15. Munmin Swain, Sksaran, Jyotrimay Chatterjee, New Zaman, Azwean Abdhullah, Sachi Nandan Mohanty, **“Hybridized Machine Learning based Fractal Analysis Techniques for Breast Cancer Classification,”**, *International Journal of Advanced Computer Science and Application*, 2020, 2158-107X (print), 2156-5570 (online), Web of Science/Scopus.
16. Dr. E. Laxmilydia, Dr. Pavan Kumar, Vydarsi Sitarama Prasad, Chinmaya, **“Data Analysis and Prediction of COVID-19 Using Machine Learning Models”**, *International Journal of Advanced Science and Technology*, 2020, 2005-4238, Others (Research Gate/Ebscohost).
17. Sumitra Kisan, Sanjay Nayak, Ajay Chawda, Sarojananda Mishra, Sachi Nandan Mohanty, **“Face Shape Classification based on Modified Relative Improved Differential Box Count Method”**, *International Journal of Advanced Science and Technology*, 2020, ISSN 2005-4238, Others (Research Gate/Ebscohost).
18. Sumitra Kisan, Baishnabi Sahu, Abhijit Jena, Sachi Nandan Mohanty, **“Detection of Violence using Hybrid Machine Learning Techniques”**, *International Journal of Advanced Science and Technology*, 2020, ISSN 2005-4238, Others (Research Gate/Ebscohost).
19. Vmnsvkr Gupta, R. Shiva Shankar, Harika Devi Kotha, J. Raghaveni, **“Voice Identification in Python Using Hidden Markov Model”**, *International Journal of Advanced Science and Technology*, 2020, ISSN 2005-4238, Others (Research Gate/Ebscohost).
20. Vairachilai S, Vamshidharreddy,, **“Student’s Academic Performance Prediction Using Machine Learning Approach”**, *International Journal of Advanced Science and Technology*, 2020, ISSN 2005-4238, Others (Research Gate/Ebscohost).
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24. G SUDHAAMSH MOHAN REDDY, S SRINIVAS RAU, B UMA, **“A Simple Proof that (Mathematical Equation)”**, *International Journal of Grid and Distributed Computing*, 2020, 2005-4262, Web of Science/Scopus.
25. G Sudhaamsh Mohan Reddy,, **“Generalized Ciri’c Type Contraction in G - metric spaces”**, *International Journal of Grid and Distributed Computing*, 2020, 2005-4262, Web of Science/Scopus.
26. Sandeep Kumar Panda, Vivek Bhalerao, Sathya A.R, **“A Machine Learning Model to Identify Duplicate Questions in Social Media Forums”**, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, 2020, ISSN: 2278-3075, Others.

27. T.V.S.Ram Kashyap and K.Kishore Kumar, "**Development of Mobile Application for Faculty Time out Information**", *International Journal of Innovative Technology and Exploring Engineering*, Volume 9 Issue 4, PP 168-174, 2020, ISSN: 2278-3075, Others.
28. K.Abhiroop Tejomay and K.Kishore Kumar, "**Sketch to Photo Conversion using Cycle-Consistent Adversarial Networks**", *International Journal of Innovative Technology and Exploring Engineering*, Volume 9 Issue 4, PP 2467-2471, 2020, ISSN: 2278-3075, Others.
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32. Dr Vivekananda K, "**Study of Surface characterization and parametric optimization during wire EDM for Inconel625**", *Material Science Forum*, Vol 978, Feb 2020, pg 97-105, 2020, ISSN: 1662-9752, Others.
33. D.V.Raghunatha Reddy, P.Bhramara, K. Govindarajulu, "**A Comparative Study of Multiple Regression and Artificial Neural Network models for a domestic refrigeration system with a hydrocarbon refrigerant mixture**", *Materials today proceedings*, 2020, 2214-7853, Others (Research Gate/Ebscohost).
34. J. Somsekar, P. Pavan Kumar, Avinash Sharma, G. Ramesh, "**Machine Learning and Image Analysis Applications in the Fight against COVID-19 Pandemic: Datasets, Research Directions, Challenges and Opportunities**", *Materials Today proceedings*, 2020, ISSN 2214-7853., Others (Research Gate/Ebscohost).
35. A.Chandra Shekhar, S.Shahab, S.HimamSaheb, "**Analysis of Geneva mechanism using Dwell Symmetrical Coupler Curve Mechanism**", *Materials Today: Proceedings*, 2020, ISSN 2214-7853., Others (Research Gate/Ebscohost).
36. Pravat Ranjan Pati, Mantra Prasad Satpathy, Ashutosh Pattanaik, Sambit Kumar Mohapatra and Swayam Bikash Mishra, "**Ultrasonic spot welding of Al/Mg alloys: A state-of-the-art review**", *Materials Today: Proceedings*, 2020, ISSN 2214-7853., Others (Research Gate/Ebscohost).
37. Pravat Ranjan Pati, Soumyajit Das, Mantra Prasad Satpathy, Bharat Chandra Routara, Susanta Kumar Sahoo and Subrat Kumar Bhuyan, "**Ultrasonic spot welding of Al-Cu sheets: A comprehensive study**", *Materials Today: Proceedings*, 2020, ISSN 2214-7853., Others (Research Gate/Ebscohost).
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40. Nagaraju Guthikonda, Elle Manikanta, Leela Chelikani, S. Sai Shiva, S. Sree Harsha, V. R. Ikkurthi and P. Prem Kiran, **“Interaction of two counter propagating laser induced plasmas and shock waves in air,” Physics of Plasmas”**, *Physics of Plasmas*, 2020, 1070-664X, UGC Care/Web of Science/Scopus.
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44. Anjanna Matta, G. Nagaraju., **“The detailed study of thermal instability analysis in an inclined porous medium”**, *AIP Conference Proceedings*, 2020, 0094-243X (print); 1551-7616 (web), UGC Care/Scopus.
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54. R. Balamurali, P. Mahesh., **“Detecting Multiple Logins in Learning Management System for Online Exams: Moodle”**, *Electronics For You*, 2020, ISSN: 0013-516X, Others.
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