



## List of Research Journal Publications - 2021

1. **D.V.A.N. Ravi Kumar**, Hybrid Unscented Kalman Filter with Rare features for Underwater Target tracking using Passive Sonar Measurements, Optik - International Journal for Light and Electron Optics, 226: 165813, Jan 2021, ISSN 0030-4026, DOI: 10.1016/j.ijleo.2020.165813.
2. **Purushotam Naidu K**, Dr. P Krishna Subba Rao, Dr. M H M Krishna Prasad, Smart-farming: IoT Based Crop Prediction System using Machine Learning Techniques, Solid State Technology, 64 (1): 4085 – 4096, Jan 2021, ISSN 0038-111X.
3. D. Chandra Sekhara, Bhagavathula S. Diwakara, **B. Rajesh Babu B**, N. Madhavi, Development of graphene oxide based hybrid metal oxide nanocomposites of GO-SnO<sub>2</sub>/ZnO/Fe<sub>3</sub>O<sub>4</sub>, GO-SiO<sub>2</sub>/ZnO/Fe<sub>3</sub>O<sub>4</sub> for energy applications, Physica B: Physics of Condensed Matter, 603:412749, Feb 2021, ISSN: 0921-4526, DOI: 10.1016/j.physb.2020.412749.
4. **S. Sumahasan**, Dr. D. RajyaLakshmi, Privacy Preserving Cloud Storage in Medical IOT using Hybrid Cryptography Algorithm, Solid State Technology, 64(2):7984-7994, Feb 2021, ISSN 0038-111X.
5. **P. Srinivasa Rao**, G. Nageswara Rao, Effect of triton-X100 on ternary complexes of Cobalt (II), Nickel (II), Copper (II) and Zinc (II) with aspartic and citric acids, Indian Journal of Chemistry, 60A, 236-242, Feb 2021, ISSN: 0376-4710.
6. **D. V. A. N. Ravi Kumar**, Conditioned measurement fused estimate Unscented Kalman filter for underwater target tracking using acoustic signals captured by Towed array, Applied Acoustics, 174: 107742, Mar 2021, ISSN:0003-682X, DOI: 10.1016/j.apacoust.2020.107742.
7. K D Rao, **A Hema Chander**, S Ghosh, Robust Observer Design for Mitigating the Impact of Unknown Disturbances on State of Charge Estimation of Lithium Iron Phosphate Batteries using Fractional Calculus, IEEE Transactions on Vehicular Technology, 70(4): 3218-3231, Apr 2021, ISSN: 0018-9545, DOI: 10.1109/TVT.2021.3066249.
8. **K. L. Sai Prasad**, S. Suneetha Devi, and G.V. S. R. Deekshitulu, On a class of Lorentzian para-Kenmotsu manifolds admitting the Weyl-Projective curvature tensor of type (1, 3), Italian Journal of Pure and Applied Mathematics, 45, 990-1001, May 2021, ISSN: 2239-0227.
9. **D. K. Bebarta**, T. K. Das, Chiranji Lal Chowdhary, Xiao-Zhi Gao, An Intelligent Hybrid System for Forecasting Stock and Forex Trading Signals using Optimized Recurrent FLANN and Case-based Reasoning, International Journal of Computational Intelligence Systems, 14(1): 1763 – 1772, June 2021, ISSN: 1875-6891, DOI: 10.2991/ijcis.d.210601.001.

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10. **S. Sumahasan, Uday Kumar Addanki**, Anjani Kintali, Srilekha Bontu, Content-based SMS Spam Messages classification using Natural Language Processing and Machine Learning, International Journal of Engineering Research in Computer Science and Engineering, 8(7): 41-46, July 2021, ISSN: 2394-2320.
11. **Vijaya Lakshmi A.S.V**, Siva Kumar Mangipudi, Ramalinga Raju Manyala, Optimal Robust PID-PSS design for melioration of power system stability using search and rescue algorithm, Journal of Control, Automation and Electrical Systems, 32(4): 968-982, Aug 2021, ISSN:2195-3899, DOI: 10.1007/s40313-021-00720-1.
12. D. Srilatha, **R.V.S. Lakshmi Kumari**, S.V.R. Lakshmi Kumari, Usage Based Loss Allocation to Generators in Single Area Power System, International Journal on Design Engineering, 7: 9562-9572, Aug 2021, ISSN: 0011-9342.
13. Mohapatra, Sudhir Kumar, Srinivas Prasad, **Dwiti Krishna Bebarta**, Tapan Kumar Das, Kathiravan Srinivasan, and Yuh-Chung Hu, Automatic Hate Speech Detection in English-Odia Code Mixed Social Media Data Using Machine Learning Techniques, Applied Sciences, 11(18):8575, Sep. 2021, ISSN: 2076-3417, DOI: 10.3390/app11188575.
14. **Molli Krishna**; Raj. P Ajay-D-Vimal; Subramaniam, N P. Sudhakaran, M., Stabilized Power Management in the Microgrid Using Unified Delta Controller, Journal of Electrical Systems, 17(3): 376-388, Sep 2021, ISSN: 1112-5209.
15. **Dr. P.V.S.L Jagadamba**, Ms. Garapati Sai Harshini, Ms. Kalla Gowri, Ms. Gandhi Yernamma, Automatic Speech to Text Summarization Using Graph Based Algorithm, International Journal of Enhanced Research in Science, Technology & Engineering, 10(10):29-32, October 2021, ISSN: 2319-7463.
16. Dhananjaya, M., Pattnaik, S., **Potnuru. D**, Design and implementation of a new inverter topology with reduced THD and part count, International Journal of System Assurance Engineering and Management, 13:1410–1418, Nov 2021, ISSN: 0975-6809. DOI: 10.1007/s13198-021-01486-0.
17. **G. Tirupati**, M H M Krishna Prasad, P. Srinivasa Rao, Covid-19 Prediction Modeling Using Bidirectional Gated Recurrent Unit Network Model, Webology, 18(5):15-41, Nov 2021, ISSN: 1735-188X.
18. **K Purushotam Naidu**, Dr. P Krishna Subba Rao, Dr. MHM Krishna Prasad, Machine Learning Based Hybrid Ensemble Model Using Majority Voting Technique for Crop Prediction, Webology, 18 (5): 2282-2293, Nov 2021, ISSN: 1735-188X.

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19. V. Lakshmi Savithri Vatsalya, G. Sunita Sundari, Ch. S. L. N. Sridhar, **Ch. S. Lakshmi**, Evidence of Superparamagnetism in nano phased copper doped nickel zinc ferrites synthesized by Hydrothermal Method, Optik - International Journal for Light and Electron Optics, 247:167874, Dec 2021, doi.org/10.1016/j.ijleo.2021.167874, ISSN: 0030-4026, DOI: 10.1016/j.ijleo.2021.167874.
20. **K. Srinivasa Rao, M. Bhanu Sridhar**, L. Pavani, IoT based Smart Fridge Application, International Journal of Engineering Research & Technology, 10(12):367-376, Dec 2021, ISSN: 2278-0181, DOI: 10.17577/IJERTV10IS120160.
21. **Vijaya Lakshmi A.S.V**, Siva Kumar Mangipudi and Ramalinga Raju Manyala, Control constraint based optimal PID-PSS design for a widespread operating power system using SAR algorithm, International Transactions on Electrical Energy Systems, 31(12):E13146 Dec 2021, ISSN: 2050-7038, DOI: 10.1002/2050-7038.13146.
22. S. Anand Kumar, **G. Sudheer**, Influence of the oxide layer on the quality of bonding in adhesively bonded metallic structures by ultrasonic guided waves, International Journal of Adhesion and Adhesives, 111: 102981, Dec 2021, ISSN 0143-7496, DOI: 10.1016/j.ijadhadh.2021.102981.
23. **R. Sridevi, G. Sudheer**, D.Lalitha Bhaskari, Identification of Spatial Relations in Mathematical Expressions, Reliability: Theory & Applications, 16(4):346-353, Dec 2021, ISSN: 1932-2321, DOI:10.24412/1932-2321-2021-465-346-353.
24. S. Suneetha Devi, T. Satyanarayana and **K. L. Sai Prasad**, Curvature Tensors in SP-Kenmotsu Manifolds with respect to Quarter- Symmetric metric connection, Reliability: Theory and Applications, 16(4), 210-218, Dec 2021, ISSN: 1932-2321, DOI: 10.24412/1932-2321-2021-465-210-218.



## List of Conference Proceedings - 2021

1. Varaprasad M.V.G., Arundhati B., **Allamsetty H.C.**, Bankupalli P.T, Machine Intelligence and Soft Computing. Advances in Intelligent Systems and Computing/ Design and Implementation of a Modified H-Bridge Multilevel Inverter with Reduced Component Count, Vol. 1280, Feb 2021, ISBN: 978-981-15-9515-8.
2. C. H. Rao Kamesh, R. N. Patel, L. K. Sahu, Y. Kishor, **A. H. Chander** and A. Kumar Tiwari, A Novel Non-Isolated Multiple Input DC/DC Boost Converter Topology, 2021 Emerging Trends in Industry 4.0 (ETI 4.0), 2021, pp. 1-5, May 2021.
3. Monika Agrawal and **K. V. S. Rao**, Lecture Notes in Electrical Engineering, Economic Analysis of Floating Photovoltaic Plant in the Context of India. In: P., S., Prabhu, N., K., S. (eds), Advances in Renewable Energy and Electric Vehicles, Vol 767. Springer, Singapore. Aug 2021, ISBN: 978-981-16-1940-3.
4. Divya Mittal and **K. V. S. Rao**, Lecture Notes in Electrical Engineering, Harnessing solar energy from wind farms: Case study of four wind farms, In: P., S., Prabhu, N., K., S. (eds), Advances in Renewable Energy and Electric Vehicles, Vol.767. Springer, Singapore, Aug 2021, ISBN: 978-981-16-1940-3.
5. Vineet Kumar Mahaver and **K. V. S. Rao**, Lecture Notes in Electrical Engineering, Estimation of Levelized Cost of Electricity (LCOE) of 1 MW SPV Plants Installed at 33 Different Locations in Rajasthan, India. In: P., S., Prabhu, N., K., S. (eds), Advances in Renewable Energy and Electric Vehicles, vol 767. Springer, Singapore, Aug 2021, ISBN: 978-981-16-1940-3.
6. Mayank Gautam and **K. V. S. Rao**, Lecture Notes in Electrical Engineering, Comparison of Five Fuel Cell Electric Vehicles. In: P., S., Prabhu, N., K., S. (eds), Advances in Renewable Energy and Electric Vehicles, vol 767. Springer, Singapore, Aug 2021, ISBN: 978-981-16-1940-3.
7. T. Satyanarayana, **K. L. Sai Prasad**, Study on semi-symmetric Para-Kenmotsu Manifolds, Chapter-3, in: Current topics in Mathematics and Computer Science, Vol.9: 25-32, Aug 2021, B. P. International, ISBN-13 (15)-978-93-90888-15-3.

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8. T. Satyanarayana, **K. L. Sai Prasad**, Studies on a type of Para-Kenmotsu Manifold, Chapter-9, in: Current topics in Mathematics and Computer Science, Vol.9: 90-99, Aug 2021, B. P. International, ISBN13 (15)-978-93-90888-15-3.
9. Lydia, L., **Sharmili, N.**, Pavani, T., Dakshina Murthy, S, Robust Digital Image Watermarking Approach for Secure Medical Data Transmission in Smart Cities. In: Elhoseny, M., Shankar, K., Abdel-Basset, M. (eds) Artificial Intelligence Applications for Smart Societies. Studies in Distributed Intelligence. Springer, Aug 2021.
10. S.Mishra, L K Sahu, **A. H. Chander** and A K Tiwari, Modelling of Electric Vehicle Direct Current Fast Charging Station, 2021 Asian Conference on Innovation in Technology (ASIANCON), 27-29 Aug 2021.
11. CH Kamesh Rao, R N Patel, L K Sahu, Y Kishore, **A. H. Chander** and A K Tiwari, Design of ANPC Converter based DC Charging Station for Electric Vehicle, 2021 Asian Conference on Innovation in Technology (ASIANCON), 27-29 Aug 2021.
12. **Allamsetty Hemachnader**, Lalit Sahu, Subhojit Ghosh, Multiple Input Converter for Photovoltaic Applications, Book Series: Energy Systems in Electrical Engineering, DC-DC Converters for Future Renewable Energy Systems, pp. 233-252, Sept 2021, ISBN: 978-981-16-4387-3.
13. CH Kamesh Rao, S.Mishra, L K Sahu, Y Kishore, **A. H. Chander** and A K Tiwari, Electric Vehicle Charging Station Using ANPC Converter With Bipolar DC Bus, 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON), 24-26<sup>th</sup> Sep 2021.
14. Mudadla Dhananjaya, Jagabar Sathik M, Sanjeevikumar Padmanaban, Dhafer Almakhlles, **Devendra Potnuru**, A New Configuration of Switch and Source Fault-Tolerant Dual-Input Single-Output DC-DC Converter, 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON), 24-26<sup>th</sup> Sep 2021.
15. **Sree Vidhya Vaidyanadhan**, Guru Sumanth, Dr. Sankar Peddapati and SVK Naresh, Inductor Switched Series Loaded Resonant Converter for LED Applications, IECON 2021, 47th Annual Conference of the IEEE Industrial Electronics Society, pp. 1-6, 13-16<sup>th</sup> Oct 2021.

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16. Srilatha, D. and **R V S Lakshmi kumari**, Short Circuit Fault Analysis of Three Phase Transmission System Using Matlab. Lecture Notes in Networks and Systems, International Conference on Computational and BioEngineering, Oct 2021, ISBN: 978-981-16-1941-0.
17. **K. L. Sai Prasad**, S. Sunitha Devi and G. V. S. R. Deekshitulu, Study on a Class of PKenmotsu Manifolds Admitting Weyl-projective Curvature Tensor of Type (1, 3), Chapter-3, In: Recent Advances in Mathematical research and Computers, Vol.1: 21-27, Oct 2021, B. P. International, ISBN: 978-93-5547-071-3.
18. **Ch. Alekhya**, Digital divide and Computer literacy training for Indian Tribal students in the book titled: Advanced Educational Statistics and Research, 2021, ESN publications, Chennai, ISBN: 978-81-947019-4-1.
19. **Ganesh Laveti**, D Eswara Chaitanya, P.Chaya Devi, T.Vinodh Kumar, Positioning Strategies: Implementation and Applications of Major Source Localisation and Positioning Approaches over Indian Subcontinent, Micro-electronics Electromagnetics and Telecommunications- ICMEET 2019/Springer Lecture Note in Electrical Engineering, Vol. 655, pp. 201-211, ISBN:978-981-15-3827-8.
20. Daryabi, S., Hema Chander, A., Madhuri, B.G., Pramadha Rani, V. (2021). Reliability Assessment of a Hybrid PV/Battery Converter. In: Chowdary, P., Chakravarthy, V., Anguera, J., Satapathy, S., Bhateja, V. (eds) Microelectronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering, Vol 655. Springer, Singapore. [https://doi.org/10.1007/978-981-15-3828-5\\_56](https://doi.org/10.1007/978-981-15-3828-5_56).