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Area of interest:

High Performance Heterogeneous Computing, Information and Network Security

Publications:

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- 1. Arun Manoharan, Hemprasad Patil, Sujatha Rajkumar, Usharani Seshasayee, "Emerging Trends in Artificial Intelligence for Internet of Things", Department of Embedded Technology, Vellore Institute of Technology, ISBN- 9789389640083, Vol. I, Dec 2019.
- 2. Arun Manoharan, "High Speed Signature Detection Architectures for Network Applications - FPGA based Reconfigurable Architectures", LAP LAMBERT Academic Publishing, Germany, First Edition, 2012. (ISBN 978-3-659-24982-2) @Amazon.
- 3. Sureshkumar Nagarajan, Arun Manoharan, "Accuracy Analysis of Satellite Image Classification Techniques" LAP LAMBERT Academic Publishing, Germany, First Edition, 2016.(ISBN 978-3-330-01382-7)
- 4. Sureshkumar Nagarajan, Arun Manoharan, Arunkumar S, Anand S, "Advanced Image Processing Techniques and Applications" IGI Global Publications, Feb 2017. ISBN: 9781522520535
- 5. Ajitha Sukumaran, Arun M, "A Brief Review of Conventional and Deep Learning Approaches in Facial Emotion Recognition", Emerging Trends in Artificial Intelligence for Internet of Things, ISBN- 9789389640083, Vol. I, Dec 2019.
- 6. Barua, S., Patil, H., Desai, P.D., Arun, M., Deep learning-based smart colored fabric defect detection system, Advances in Intelligent Systems and Computing, Springer 2020, 1155, pp. 212-219.

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- 7. Subam Mahajan, L. N. Sirisha Mrunalini and Arun M, "Dual Band Graphene Based Hexagonal Patch Antenna in Terahertz Regime for Biomedical Applications" Optik, Under Review, Sep 2020.
- 8. Surendar, A., Kavitha, M., Arun, M., Panwar, V., "Reliability Assessment of Solder Joints in Electronic Devices under Extreme Thermal Fluctuations", IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10(8), pp. 1394-1400.
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12. A Surendar, M Arun, AM Basha, "FFcPsA: a fast finite conventional state using prefix pattern gene search algorithm for large sequence identification", Soft Computing, Vol.23, No.8, pp.2761-2771, 2019.
13. Anish Chandran, Arun Manoharan, "Optimization of Tridiagonal Matrix Algorithm [TDMA] on Multicore Architectures: Computational framework and mathematical modelling", International Journal of Grid and High Performance Computing, Volume 11, Issue 4, Article 1, 2019 (140917-052547).
14. Rajkumar, S., Arun, M., Hirwani, J., Sanjeev, S.S., "Predictive analysis of crops cultivation for a smart green environment using azure services", International Journal of Recent Technology and Engineering, 2019, 7(5), pp. 295-298.
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