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- T. Prem Jacob, A Pravin, (2020), "Computer-Aided diagnosis scheme for brain tumor classification using discrete wavelet transform and artificial neural network classifier", Neural Computing and Applications, Springer, Impact Factor: 4.774 (Web of Science)
- T. Prem Jacob, Pravin A, Nagarajan G, (2019), "Robust technique for data security in multicloud storage using dynamic slicing with hybrid cryptographic technique", Journal of Ambient Intelligence and Humanized Computing, pp.no. 1–8, Impact factor: 4.594. (Web of Science)
- T. Prem Jacob, V. Kanimozhi, (2020), "Artificial Intelligence outflanks all other machine learning classifiers in Network Intrusion Detection System on the realistic cyber dataset CSE-CIC-IDS2018 using cloud computing", ICT Express, Elsevier, ISSN 2405-9595, Impact Factor: 2.95
- 4. T. Prem Jacob, K. Pradeep, (2019), "A Multi-objective Optimal Task Scheduling in Cloud Environment Using Cuckoo Particle Swarm Optimization", Wireless Personal Communications, Springer, Vol. 109, Issue. 1, : pp,no, 315-331, Impact factor: 1.061. (Web of Science)
- T. Prem Jacob, Pradeep K, (2018), "A hybrid approach for task scheduling using the cuckoo and harmony search in cloud computing environment", Wireless Personal Communications, 101(4), pp.no. 2287-2311, Impact factor: 1.061. (Web of Science)
- T. Prem Jacob, Minu R I, Nagarajan G, Pravin A, (2019), "BIP: A dimensionality reduction for image indexing", ICT Express, Elsevier, 5(3), pp.no. 187-191, Impact Factor: 2.95
- 7. T. Prem Jacob, V. Kanimozhi, (2019), "Artificial Intelligence based Network Intrusion Detection with hyper-parameter optimization tuning on the realistic cyber dataset CSE-CIC-IDS2018 using cloud computing", ICT Express, Elsevier, Volume 5, Issue 3, Pages 211-214, ISSN 2405-9595, Impact Factor: 2.95
- T. Prem Jacob, A Pravin, (2020), "An integrated Approach for efficient compression of medical images in telemedicine", International Journal of Imaging Systems and Technology, Wiley, Impact Factor: 1.925
- g. T. Prem Jacob, A Pravin, G Nagarajan, (2019), "Efficient spectrum sensing framework for cognitive networks", Concurrency and Computation: Practice and Experience: e5187, Impact factor: 1.447 (Web of Science)
- T. Prem Jacob, A Pravin, (2020), "Differential spectrum access for next generation data trafic in massive IoT", Microprocessors and Microsystems, Elsevier, Impact Factor: 1.161 (Web of Science)

- T. Prem Jacob, Kanimozhi V, (2019), "UNSW-NB15 Dataset Feature Selection and Network Intrusion Detection using Deep Learning", International Journal of Recent Technology and Engineering, IJRTE, ISSN: 2277-3878, Volume 7, Issue 5.
- T. Prem Jacob, Pradeep K, (2018), "CGSA scheduler: A multi-objective-based hybrid approach for task scheduling in cloud environment", Information Security Journal: A Global Perspective, 27(2), pp.no. 77-91.
- T. Prem Jacob, Pravin A, P. Asha, (2018), "Enhancement of plant monitoring using IoT", International Journal of Engineering and Technology (UAE) 7.3, pp.no. 53-5.
- T. Prem Jacob, Krishnadoss P, (2018), "OCSA: task scheduling algorithm in cloud computing environment", International Journal of Intelligent Engineering and Systems, 11(3), pp.no. 271-279.
- 15. T Prem Jacob, K Pradeep, (2017), "CGSA scheduler: A multi-objective-based hybrid approach for task scheduling in cloud environment", Taylor and Francis, Information Security Journal A Global Perspective, pp.no. 1-15.
- 16. T. Prem Jacob, Panimalar S, (2020), "A Study of Biology-Based Congestion Control Algorithms for Wireless Sensor Network", Lecture Notes on Data Engineering and Communications Technologies, Springer.
- T. Prem Jacob, K.N.Karthick Kumar, (2017), "Security Enhancement Using Motion Detection", International Journal of Computer Science and Information Technology and Security, Vol 7, Issue No.2, pp.no. 23-26.
- 18. T.Prem Jacob, Prachi Sudam Hule, (2016), "Node Behaviour Monitoring and Removal of Faulty Nodes In Wireless Network", ARPN Journal of Engineering and Applied Sciences, Vol 11, Issue 13, pp.no. 8401–8404.
- T.Prem Jacob, (2015), "Implementation of Randomized Test Pattern Generation Strategy", Journal of Theoretical and Applied Information Technology, Vol 73, Issue 1, pp.no. 59-64.
- 20. T.Prem Jacob Aishwarya Swaminathan, (2015), "Study of role based joint threshold key generation with Bluetooth Id verification for data security", International Journal of Applied Engineering Research, Vol.10, Issue 4, pp.no.11503-11510.

- T.Prem Jacob, Pratima Panneerselvam, (2015), "Gathering Geo-PointFrom User's Shared Photos Based On PNN And GLCM Method", International Journal of Applied Engineering Research, Vol.10, Issue.1, pp. 5851-5855.
- T.Prem Jacob, I. Naga Geethika, (2014), "An Efficient Approach for Password Attacks", International Journal of Engineering Trends and Technology, Vol.9, Issue.2, pp.no. 78-80.
- 23. T.Prem Jacob, K.S.Priyadarshini, (2014), "Improving the Software Reliability Through Adaptive Testing Strategy", A Statistical Approach, International Journal of Applied Engineering Research, Vol.9, Issue.24, pp.no. 25919-25925.
- 24. T.Prem Jacob, M.Divya, (2014), "CE and SE Based Fault Characterization Approach to Minimize Testing Cost", International Journal of Applied Engineering Research, Vol.9, Issue.22, pp.no.16849–855.
- T.Prem Jacob, Ravi.T, (2014), "A Novel Approach for Test Suite Prioritization", Journal of Computer Science, Vol.10, No.1, pp.138–142, SNIP 0.020, SJR 0.071.
- T.Prem Jacob, Ravi.T. (2013), "Regression Testing: Tabu Search Technique for Code Coverage", Indian Journal of Computer Science and Engineering, Vol.4, No.3, pp.208-215.
- T.Prem Jacob, Ravi.T, (2013), "An Optimal Technique for Reducing the Effort of Regression Test", Indian Journal of Science and Technology, Vol.6, No.8, pp.5065–5069.
- T.Prem Jacob, Ravi.T, (2013), "An Efficient Method for Regression Test Selection", International Journal
 of Software Engineering and Technology, Vol.5, No.6, pp.218-222, IF: 0.261.
- 29. T.PremJacob, Ravi.T, (2013), "Optimization of test cases by prioritization", Journal of Computer Science, Vol.9, No.8, pp.972-980, SNIP 0.020, SJR 0.071.
- T.Prem Jacob, Ravi.T. (2013), "Optimal Regression Test Case Prioritization using genetic algorithm", Life Science Journal, Vol.10, No.3, pp.1021–1033, SNIP 0.010, SJR 0.071.
- T.Prem Jacob, Ravi.T. (2013). "Detecting of Software Source Code Defects using Test Case Prioritization Rules", Presented the paper in 2nd International Conference on Latest Computational Technologies, London (UK), pp.29–32.

- 32. T.Prem Jacob, Ravi.T, (2013), "An Efficient Regression Testing Technique for Test Case Prioritization", International Conference on Software Engineering Research and Practice, USA, pp.no. 288-291.
- T.Prem Jacob, Kumar S, Goyal, R, (2018), "Office automation for digital India", International
 Conference on Emerging Trends and Innovations In Engineering and Technological Research,
 ICETIETR.
- 34. T.Prem Jacob, Hinduja D, Dheebhika R, (2019), "Enhanced Character Recognition using Deep Neural Network-A Survey", In International Conference on Communication and Signal Processing JCCSP, pp.no. 0438-0440, IEEE.
- 35. T.Prem Jacob, Varun, Kollipara Sai, I. Puneeth, (2019), "Virtual Mouse Implementation using Open CV" ,3rd International Conference on Trends in Electronics and Informatics, ICOEI, IEEE.
- 36. T.Prem Jacob, Kanimozhi V, (2019), "Artificial Intelligence based Network Intrusion Detection with hyper-parameter optimization tuning", In International Conference on Communication and Signal Processing, ICCSP, pp.no. 0033-0036, IEEE.
- T.Prem Jacob, Varun, K. S. Puneeth, (2019), "Hand gesture recognition and implementation for disables using CNN'S", In International Conference on Communication and Signal Processing, ICCSP, pp.no. 0592-0595, IEEE.
- 38. T.Prem Jacob, Kumar K K, Natraj H, (2017), "Motion activated security camera using Raspberry Pi", In International Conference on Communication and Signal Processing, ICCSP, pp.no. 1598-1601, IEEE.
- 39. T.Prem Jacob, K.Pradeep, (2016), "Comparative analysis of scheduling and load balancing algorithms in cloud environment", IEEE, International Conference on Control, Instrumentation, Communication and Computational Technologies, ICCICCT, pp.no. 526-531.
- 40. T.Prem Jacob, Ravi.T, (2013), "Study of Selection Techniques in Regression Testing", National Conference on NC-EVENT, in association with IEEE, organized by Sathyabama University, pp.no. 85-87.
- 41. T.Prem Jacob, Ravi.T, (2012), "Effective Test Case Selection and Prioritization Using Genetic Algorithm", Presented the paper in National Conference on Emerging Trends in Computer Science and Bioinformatics, organized by Vels University, pp.no. 56-59.

- 42. T.Prem Jacob, Ravi.T, (2011), "An Analysis of Improving the Correctness of Software Effort Estimation", National Conference on Challenges and Issues In Computing and Technology, organized by VelTech, Dr.RR and Dr.SR Technical University, pp.no. 400-403.
- 43. T.Prem Jacob, Ravi.T, (2011), "Improving the Effectiveness of Test Execution Effort Estimation", Presented the paper in National Conference on Recent Trends in Communication and Power Transmission organized by SRR Engineering College, pp.no. 74-77.
- 44. T.Prem Jacob, Ravi.T, (2011), "Analyze A Tool To Mechanize The Test Case", Presented the paper in National Conference on Computer Applications for Managerial Excellence, organized by Loyola Institute of Technology, pp.no. 45-47.
- **45.** T.Prem Jacob, Ravi.T, (2011), "Research and Development of a New Software Testing Model", Presented the paper in International Conference on Recent Advancements in Computing Technology, organized by Bharath University, pp.no. 142–146.
- 46. T. Prem Jacob, A. Pravin, P. Asha, (2018), "Arduino Object Follower with Augmented Reality" International Journal of Engineering & Technology, 7.3.27, pp.no. 108–110.
- 47. T. Prem Jacob, Pandian A, Varadharajulu B, John A M, (2019), "A Comprehensive View of Scheduling Algorithms for Map Reduce Framework in Hadoop", Journal of Computational and Theoretical Nanoscience, 16(8), pp.no. 3582-3586.
- **48.** T. Prem Jacob, Kanth R R, (2019), "A Survey On Privacy Preserving Schemes and Performance With Multiple and Individual Data Sets", Journal of Critical Reviews, 6(4), pp.no. 57-64.
- 49. T. Prem Jacob, Krishna Doss, Pradeep, (2019), "OLOA: Based task scheduling in heterogeneous clouds", International Journal of Intelligent Engineering and Systems 12.1.
- 50. T. Prem Jacob, P Sukanya, T Madhavi, T., (2020), Brain tumor discovery using image preprocessing, International Journal of Research in Pharmaceutical Sciences, 2020, 11(4), pp. 6870–6875
- 51. T.Prem Jacob, S Panimalar, A Comparative Study of Hybrid Optimized Algorithms for Congestion Control in Wireless Sensor Network, Proceedings of the 2020 IEEE International Conference on Communication and Signal Processing, ICCSP 2020, 2020, pp. 889–893.
- 52. T.Prem Jacob, S Panimalar, (2020), A Study of Biology-Based Congestion Control Algorithms for Wireless Sensor Network, Lecture Notes on Data Engineering and Communications Technologies, 2020, 33, pp. 271–281



PATENT

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