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**Journal Publications over last 5 years**

**(Indexed with SCI/SCIE/SSCI/SCOPUS/PubMED/ICI/WoS only)**

1. K.Roshini, B.Bavya, G.Jeyakumar, "RoBaJe – A Simulated Computational Model for Human Memory to Illustrate Encoding and Decoding of Information", *International Journal of Applied Engineering Research, Research India Publications, ISSN 0973-4562* Vol. 9, No. 24, pp. 26957-26970, January-2015. (*Scopus Indexed*)
2. Meera Sanu and G.Jeyakumar, "Empirical Performance Analysis of Distributed Differential Evolution For Varying Migration Topologies", *International Journal of Applied Engineering Research, Research India Publications, ISSN 0973-4562*, Vol. 10, No. 5, pp. 11919-11932, April-2015. (*Scopus Indexed*)
3. Rachamalla Rahul Reddy and G.Jeyakumar, "Differential Evolution with Added Components for Early Detection and Avoidance of Premature Convergence in Solving Unconstrained Global Optimization Problems", *International Journal of Applied Engineering Research, Research India Publications, ISSN 0973-4562*, Vol. 10, No. 5, pp. 13579-13594, April-2015. (*Scopus Indexed*)
4. S. Thangavelu, G. Jeyakumar and C. Shunmuga Velyautham, "Population Variance Based Empirical Analysis of the Behavior of Differential Evolution Variants", *Applied Mathematical Sciences*, HIKARI Ltd, Vol. 9, No. 66, pp. 3249 – 3263, April-2015. (*Scopus Indexed*). (Presented at *International Conference on Mathematics and its Application, University College of Engineering, Vizhupuram, India, (ICMA) December-2014*) ISSN: 1312885X (*Scopus Indexed*)
5. Ramya Raghu and G Jeyakumar, "Empirical Analysis on the Population Diversity of the Sub-populations in Distributed Differential Evolution Algorithm," *In Proceedings of Springer International Conference on Soft Computing Systems*, 19<sup>th</sup> February-2016, and in *International Journal of Control Theory and Applications*, Vol. 8, No. 5, pp. 1809-1816, April 2016. (*Scopus Indexed*)
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8. Dhanya M Dhanalakshmy, Pranav P, Jeyakumar G, "A Survey on Adaptation Strategies for Mutation and Crossover Rates of Differential Evolution Algorithm", *International Journal on Advanced Science, Engineering and Information Technology*, Vol. 6, No. 5, pp. 613- 623, November-2016, ISSN 2088 5334. (Scopus Indexed)
9. M. Subramania Siva and G. Jeyakumar, "Universal Automobile Headlight Control Module for High Beam Adaptation during Night Vision Travel an Embedded Design Approach", *International Journal of Reconfigurable and Embedded Systems (IJRES)*, Vol. 7, No. 1, March 2018, pp. 34-42, ISSN: 2089-4864.
10. Devika. K, G. Jeyakumar, "Theoretical Analysis and Empirical Comparison of Different Population Initialization Techniques for Evolutionary Algorithms", *Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 12, No. 1, October 2018, pp. 87~94 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v12.i1.pp87-94 Journal homepage: <http://iaescore.com/journals/index.php/ijeecs> (Scopus Indexed)
11. Spurti Sachin Shinde, K. Devika, S. Thangavelu, G. Jeyakumar, "Multi-Objective Evolutionary Algorithm Based Approach for Solving Rfid Reader Placement Problem Using Weight-Vector Approach with Opposition-Based Learning Method", *International Journal of Recent Technology and Engineering (IJRTE)* ISSN: 2277-3878, Volume-7, Issue-5, pp. 177-184, January 2019. (Scopus Indexed)
12. Pragadeesh C, Rohana Jeyaraj, Siranjeevi K, Abishek R, Jeyakumar G, "Hybrid feature selection using micro genetic algorithm on microarray gene expression data", *In Proceedings of 4<sup>th</sup> International Conference on Intelligent Systems Technologies and Applications (ISTA-2018)*, Held at PES college, Bangalore, September 19-22, 2018. Published in *Journal of Intelligent & Fuzzy Systems*, vol. 36, no. 3, pp. 2241-2246, April-2019. (Scopus Indexed)
13. Katamneni Vinaya Sree and Jeyakumar, G , "An Evolutionary Computing Approach to Solve Object Identification Problem in Image Processing Applications", *In Proceedings of 1<sup>st</sup> International Conference on Intelligent Computing (ICIC 2018)*, Held at Amrita University, Bangalore Campus, October 25 to 27 – 2018. Published in *Journal of Computational and Theoretical Nanoscience*, Volume 17, Number 1, January 2020, pp. 439-444(6) (Scopus Indexed)
14. Dhanya M. Dhanalakshmy, M.S. Akhila, C.R. Vidhya, G. Jeyakumar, " Improving the

Search Efficiency of Differential Evolution Algorithm by Population Diversity Analysis and Adaptation of Mutation Step Sizes”, *International Journal of Artificial Intelligence Paradigms*, Special Issue on: Nature-inspired Computing and Its Applications, DOI - 10.1504/IJAIP.2020.10012567, Vol. 15, No. 2, 2020. (Scopus Indexed)  
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15. Saeed Ahmed, Nirmal Krishnnan, Thanmay Ganta and Gurusamy Jeyakumar. “A Video Analytics System for Class Room Surveillance Applications”, presented in ICCET-2019 conference (9<sup>th</sup> International Conference On Science And Innovative Engineering And Technology) held at Prince Shri Venkateshwara Padmavathy Engineering College, Chennai at April – 8<sup>th</sup> 2019. Published in *International Journal of Recent Technology and Engineering*. ISSN: 2277-3878, Volume-7, Issue-5S3, February 2019. (Scopus Indexed)
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17. Sruthi, A, Anbuudayasankar, S.P and Jeyakumar, G “Energy efficient green vehicle routing problem”, *International Journal of Information Systems and Supply Chain Management*, Vol. 12, No. 4, pp. 27-41. 1 October 2019, (Scopus Indexed)
18. P. Pranav, and G. Jeyakumar, “Control Parameter Adaptation Strategies for Mutation and Crossover Rates of Differential Evolution Algorithm – An Insight,” *In Proceedings of IEEE International Conference on Computational Intelligence and Computing Research (ICCIC-2015)*, December-2015, pp. 563 - 568. ISBN: 978-1-4788-7848-9. (Scopus Indexed)
19. Sreenath. K, Jeyakumar G, “Evolutionary Algorithm Based Rule(s) Generation for Personalized Courseware Construction in Educational Data Mining”, *In proceeding of 2016 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC – 2016)*, December 2016, Agni College of Technology, Chennai, pp. 609-615, 2016. ISBN: 978-1-5090-0611-3. (Scopus Indexed)
20. Haritha, Thangavelu, Jeyakumar, “Image Fusion using Evolutionary Algorithms: A survey”, *In Proceedings of ICACCS 2017*, Sri Eeshwar College of Engineering, Jan 6<sup>th</sup> and 7<sup>th</sup> 2017. (Scopus Indexed)
21. Rubini, N, ChambuliVenkata Prashanthi, Subanidha, S, Jeyakumar, G “An Optimization

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22. Kevin Thomas Abraham, Ashwin M, Darshak Sundar, Tharic Ashoor, Jeyakumar, G “An Evolutionary Computing Approach for Solving Key Frame Extraction Problem in Video Analytics”, *In Proceedings of ICCSP-2017 – International Conference on Communication and Signal Processing*, Held at Adiparasakthi College of Engineering, 7<sup>th</sup> April 2017. (Scopus Indexed)
  23. Gokul, K, Pooja, R, Gowtham, K, Jeyakumar, G “A Self-Switching Base Vector Selection Mechanism for Differential Mutation of Differential Evolution Algorithm”, *In Proceedings of ICCSP-2017 – International Conference on Communication and Signal Proceedings*, Held at Adiparasakthi College of Engineering, 7<sup>th</sup> April 2017. (Scopus Indexed)
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  25. Kevin Thomas Abraham, Ashwin M, Darshak Sundar, Tharic Ashoor, Jeyakumar, G “Empirical Comparison of Different Key Frame Extraction Approaches with Differential Evolution based Algorithms”, *In Proceedings of ISTA-2017 – 3<sup>rd</sup> International Symposium on Intelligent System Technologies and Applications*, Held at Manipal University, 15<sup>th</sup> Sept 2017. (Scopus Indexed)
  26. Shilpa Raju, Jeyakumar, Arup Mukherji, Jignesh K Thanki “Time Synchronized Diagnostic Event Data Recording based on AUTOSAR”, *IEEE International Conference on Advanced Networks and Telecommunications Systems*, C. V. Raman College of Engineering, Bhubaneswar, Odisha, India, 17<sup>th</sup> – 20<sup>th</sup> December 2017. (Scopus Indexed)
  27. Devika, K.Email and Jeyakumar, G. “Solving Multi-Objective Optimization Problems using Differential Evolution Algorithm with Different Population Initialization Techniques”, *2018 International Conference on Advances in Computing, Communications and Informatics*, ICACCI 2018, 30 November 2018, Article number 8554861, Pages 1-57. (Scopus Indexed)
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  30. Katamneni Vinaya Sree and Jeyakumar G, “A Computer vision based fall detection technique for home surveillance”, *Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2019 (ISMAC-CVB)*, held at Vivekanandha College of Technology for Women on 13<sup>th</sup> March 2019. Published In: Smys S., Tavares J., Balas V., Ilyasu A. (eds) *Computational Vision and Bio-Inspired Computing. ICCVBIC 2019. Advances in Intelligent Systems and Computing*, Vol 1108. pp 355-363, Springer, Cham. (Scopus Indexed)
  31. Kiran S Raj, M Nishanth and Gurusamy Jeyakumar, “ Design of Binary Neurons with Supervised Learning for Linearly Separable Boolean Operations”, *Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2019 (ISMAC-CVB)*, held at Vivekanandha College of Technology for Women on 13<sup>th</sup> March 2019, Published In: Smys S., Tavares J., Balas V., Ilyasu A. (eds) *Computational Vision and Bio-Inspired Computing. ICCVBIC 2019. Advances in Intelligent Systems and Computing*, Vol 1108., pp. 480-487, Springer, Cham. (Scopus Indexed).
  32. Konjeti Harsha Saketh and Jeyakumar G, “Comparison of Dynamic Programming and Genetic Algorithm Approaches for Solving Subset Sum Problems”, *ICCBVIC 2019*, Held at Arcadia Coimbatore, on 26/09/2019, Published In: Smys S., Tavares J., Balas V., Ilyasu A. (eds) *Computational Vision and Bio-Inspired Computing. ICCVBIC 2019. Advances in Intelligent Systems and Computing*, vol 1108, pp 472-479, Springer, Cham. (best paper award) (Scopus Indexed)
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  34. Spurti Sachin Shinde, Thangavelu S and Jeyakumar G, “Evolutionary Computing

Approaches for Solving Multi-Objective and Many-Objective Optimization Problems: A Review”, *5<sup>th</sup> International Conference on Computing Communication Control and Automation (ICCUBEA)*, held at Pimpri Chinchwad College Of Engineering, Pune, on 19-21 September 2019. (*Scopus Indexed*)

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39. Nirmal Krishnnan, Saeed Ahmed, Thanmay Ganta, Gurusamy Jeyakumar, “A Video Analytics Based Solution for Detecting the Attention Level of the Students in Class Rooms”, *In Proceedings of 10<sup>th</sup> International Conference on Cloud Computing, Data Science and Engineering (Confluence 2020)*, 29<sup>th</sup> – 31<sup>st</sup> January, Amity University, Noida, 2020. (*Scopus Indexed*)
40. Aathira M and Jeyakumar G, “Performance Enhancement of Differential Evolution Algorithm with Modified Mutation and Crossover Components”, *In Proceedings of IEEE International Conference on Computing Methodologies and Communication ICCMC 2020*, Surya Engineering College, International Conference, Erode, Tamil Nadu, 11<sup>th</sup> - 13<sup>th</sup> March 2020. (*Scopus Indexed*)