Faculty Profile

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Publications:

(i) International Journals:

1. V.P. Sakthivel and P.D. Sathya, Multi-area Economic Environmental Dispatch Using Multi-Objective Squirrel Search Algorithm, *Evolving Systems (Springer),* 2021

2. B. Shankarlal, P.D. Sathya and V.P. Sakthivel, Computer-aided Detection and Diagnosis of Thyroid Nodules Using Machine and Deep Learning Classification Algorithms, *IETE Journal of Research*, 2021.

3. R. Kalyani, P.D. Sathya, V.P. Sakthivel, Medical Image Segmentation Using Exchange Market Algorithm, *Alexandria Engineering Journal (Elsevier)*, Vol. 60, No. 6, pp. 5039-5063, 2021.

4. R. Kalyani, P.D. Sathya, V.P. Sakthivel, Multilevel Thresholding for Image Segmentation with Exchange Market Algorithm, *Multimedia Tools and Applications (Springer)*, 2021.

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14. Kanimozhi Rajasekaran, P.D. Sathya and V.P. Sakthivel, Quasi-Lossless Based Fractal Image Compression Using Krill Herd Algorithm, *International Journal of Advanced Trends in Computer Science and Engineering*, Vol. 9, No. 5, pp. 7763-7769, 2020.

15. Kanimozhi Rajasekaran, P.D. Sathya and V.P. Sakthivel, Standard Fractal Medical Image Compression with Krill Herd Optimization Algorithm, *Journal of Xidian University*, Vol. 14, No. 12, pp. 531-538, 2020.

16. R. Kalyani, P.D. Sathya and V.P. Sakthivel, Trading Strategies for Image Segmentation Using Multilevel Thresholding Aided with Minimum Cross Entropy, *Engineering Science and Technology, an International Journal*, *Elsevier*, Vol. 23, No. 6, pp. 1327-1341, 2020.

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29. V.P. Sakthivel, "Optimization of Three-Phase Induction Motor Design Considering Active Power Loss Effect: Application of Bacterial Foraging Algorithm", *Journal of Computational and Theoretical Nanoscience*, Vol. 16, No.4, pp. 1415-1425, 2019. ISSN: 1546-1963.

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(ii) National Journals:

1. V.P. Sakthivel, R. Bhuvaneswari and S. Subramanian, "Application of Particle Swarm Optimization Technique to Alternator Design", *The IUP Journal of Electrical & Electronics Engineering* Vol. III, No. 3, pp. 7-28, 2010. ISSN: 0974-1704.

(iii) International Conferences:

1. B. Shankarlal, P.D. Sathya and V.P. Sakthivel, Screening Thyroid Tumor in Ultrasound Thyroid Images using Hidden Markov Model, *IEEE 2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)*, Tirunelveli, India, pp. 1420-1425, 2021.

2. R. Kalyani, P. D. Sathya, V. P. Sakthivel and J. Ravikumar, Teaching Tactics for Color Image Segmentation Using Otsu and Minimum Cross Entropy, *IEEE 2020 International Conference on System, Computation, Automation and Networking (ICSCAN)*, Pondicherry, India, pp. 1-6, 2020.

3. V. P. Sakthivel, M. Suman and P. D. Sathya, Multi-objective Economic/Ecological Emissions Power Dispatch Using Fuzzified EMF Heuristic Algorithm, *IEEE 2020 International Conference on System, Computation, Automation and Networking (ICSCAN)*, Pondicherry, India, pp. 1-6, 2020.

4. V.P. Sakthivel, M. Suman and P.D. Sathya, "Physics Inspired Metaheuristic Approach for Solving Economic Load Dispatch in Large Scale Power Systems", Proceedings of International Conference on Power Engineering POWER COIN'20, EEE Department, Sona College of Technology, Salem, March 12-13, pp. 1, 2020. ISBN: 978-93-83910-26-7.

5. V.P. Sakthivel, M. Suman and P.D. Sathya, "Non-convex Economic Dispatch Problem with Valve Loading Effect via Electromagnetic Field Optimization", Proceedings of International Conference on Advanced Technologies in Power and Robotics Engineering, IconPOWROBO- '20, EEE Department, Arasu Engineering College, Kumbakonam, February

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7. V.P. Sakthivel, M. Suman, P.D. Sathya and K. Thirumal, "NCELD-GSO: A framework for economic load dispatch problem with valve-point effects", Proceedings of First International Conference on Advanced Technologies in Electrical Engineering (ICATEE-2019), Kamaraj College of Engineering and Technology, Virudhunagar, Madurai Dt., Oct. 4-5, pp. 26, 2019. ISBN: 978-93-89146-81-3

8. V.P. Sakthivel, M. Suman and P.D. Sathya, "Squirrel Search Optimizer for Solving Economic Load Dispatch Problem", Proceedings of the 4th International Conference on innovations in Electrical & Electronics Engineering (ICIEEE-2019), EEE Department, Guru Nanak Institutions, Hyderabad, Telangana, July 26-27, pp. 49, 2019.

9. V.P. Sakthivel, "Exchange Market Algorithm: Application to the In-field Efficiency Estimation of Three-phase Cage Induction Motor", Proceedings of the Second International Conference on Innovations in electrical, Information and Communication Engineering (ICIEICE'19), Kongunadu College of Engineering and Technology, Tholurpatti Post, Thottiam Taluk, Trichy Dt, Tamil Nadu, Mar. 24-25, 2019.

10. V.P. Sakthivel, "Glowworm Swarm Optimization (GSO): A New Algorithm to Solve Economic Load Dispatch", Proceeding of International Conference on Advancement in Science, Engineering, Technology (ICASET'19), MPNMJ Engineering College, Chennimalai, Mar. 16, pp. 222-227, 2019.

11. V.P. Sakthivel, "New Heuristic Approach for Solving Non-Convex Economic Load Dispatch", Proceedings of the Second International Conference on NexGen Technologies, Sengunthar College of Engineering, Tiruchengode, Namakkal Dist. Tamilnadu, Mar. 8-9, pp. 1-13, 2019.

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13. V.P. Sakthivel, "Novel Design Strategy of Synchronous Generator Design Optimization Using Exchange Market Algorithm", Proceedings of the International Conference on Recent Advances in Engineering and Technologies, Sri Krishna College of Engineering and Technology, Coimbatore, Feb. 8 -9, pp. 952 -957, 2019. ISBN: 978-93-87862-50-0.

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18. Kanimozhi Rajasekaran, P.D. Sathya and V.P. Sakthivel, "Fractal Image Compression with Particle Swarm Optimization and Flower Pollination Algorithm", Proceedings of the First International Conference on Innovative Technologies on Electronics, Information and Communication (INTELINC'18), Department of ECE, Annamalai university, Oct. 12 - 13, pp. 44, 2018. ISBN: 978–8193–5722-2-1

19. P.D. Sathya and V.P. Sakthivel, "Modified Bacterial Foraging Algorithm Based Multilevel Renyi's Entropy Threshold Selection", Proceedings of 3rd International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE- 2018), Guru Nanak Institute of Technology, Technical Campus, Hyderabad, Aug. 24 - 25, pp. 303-320, 2018.

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20. N. Rajesh Kumar, P.D. Sathya and V.P. Sakthivel, "Circuit and Antenna Design Aspects for Ambient RF Energy Harvesting System: Review", Proceedings of 3rd International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE- 2018), Guru Nanak Institute of Technology, Technical Campus, Hyderabad, Aug. 24 - 25, pp. 292-296, 2018. ISBN: 978-93-85101-58-8.

21. Kanimozhi Rajasekaran, P.D. Sathya and V.P. Sakthivel, "An Efficient Optimization Technique for Fractal Image Compression", Proceedings of 3rd International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE- 2018), Guru Nanak Institute of Technology, Technical Campus, Hyderabad, Aug. 24 - 25, pp. 297-302, 2018. ISBN: 978-93-85101-58-8.

22. V.P. Sakthivel, "Multi Objective Design and Optimization of Synchronous Generator using Improved PSO Algorithm", Proceedings of the First International Conference on NexGen Technologies, Sengunthar College of Engineering, Tiruchengode, Namakkal Dist. Tamilnadu, Jan. 5-6, pp. 786 – 798, 2018. ISBN: 978-93-86171-90-0.

23. V.P. Sakthivel, "Experience in Design Optimization of Alternator Using Amended PSO Algorithm", Proceedings of the 10th International Conference on Recent Trends in Engineering Science and Management (ICRTESM-17), Newton's Institute of Science and Technology, Guntur Dist, Andhra Pradesh, Aug. 12-13, pp. 751-763, 2017. ISBN: 978-93-86171-56-6.

24. V.P. Sakthivel and S. Subramanian, "Using MPSO Algorithm to Optimize Three-Phase Squirrel Cage Induction Motor Design," Proceedings of the IEEE International conference on Emerging Trends in Electrical and Computer Technology, St. Xavier's Catholic College of Engineering, Nagercoil, Tamilnadu, India, Mar. 23-24, pp. 261-267, 2011. ISBN: 9781424479245

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26. V.P. Sakthivel and S. Subramanian, "Swarm Intelligence Algorithm for Induction Motor Field Efficiency Evaluation," Proceedings of the International Conference on Swarm, Evolutionary and Memetic Computing, SRM University,

Chennai, India, Lecture Notes in Computer Science (LNCS), Springer, Dec. 17-18, Vol. 6466, pp. 545-558, 2010. ISBN:9783642175633

27. V.P. Sakthivel, R. Bhuvaneswari and S. Subramanian, "In-Situ Induction Motor Efficiency Estimation Using Improved Particle Swarm Optimization," Proceedings of the International Conference on Advances in Energy Conversion Technologies, MIT, Manipal, Karnataka, India, Jan. 7-10, pp. 59-63, 2010.

28. R. Bhuvaneswari, V.P. Sakthivel, S. Subramanian and G. Thomas Bellarmine, "Hybrid Approach using GA and PSO for Alternator Design" IEEE Southeastcon 2009, Atlanta, GA, USA, 5-8 March 2009. ISBN: 978-1-4244-3976-8.

(iv) National Conferences:

1. V.P. Sakthivel, "Economic Load Dispatch for Smooth Cost Function using Adaptive PSO", Proceedings of National Conference on Emerging Trends in Engineering and Technology (NCETET'19), Nandha College of Technology, Erode, Tamil Nadu, Mar. 16, 2019.

2. V.P. Sakthivel, "Chaotic PSO for Economic Load Dispatch Considering the Generator Constraints", Proceedings of National Conference on Emerging Trends in Engineering and Technology (NCETET'19), Nandha College of Technology, Erode, Tamil Nadu, Mar. 16, 2019.

3. V.P. Sakthivel, "Designing an Energy Efficient Induction Motor: Advanced Computational Intelligence Technique", Proceedings of Third National Conference on Advances in Computational Intelligence and Instrumentation Technology (ACIIT 2019), Kongu Engineering College, Perundurai-638060, Tamil Nadu, India, Mar. 2, 2019.

4. V.P. Sakthivel, "Comparative Study on Heuristic Optimization Techniques (HOTs): In-Situ Induction Motor Efficiency Determination", Proceedings of National Conference on Recent Trends in Electrical Systems (RTES19), Sona College of Technology, Salem -5, Mar. 1, pp. 1. 2019.

5. P.D. Sathya and V.P. Sakthivel, 'Multilevel Renyi's Entropy Threshold Selection Based on Bacterial Foraging Algorithm', Proceedings of National Systems Conference on Recent Advancements in System Modeling Applications, Annamalai University, India, pp. 53-65, 2012. ISBN: 9788132210344.

Conferences/Workshops/ Seminar/ Short Term Refresher Courses Attended (Proof to be Enclosed)

1. AICTE sponsored Short Term Training Programme on "Future Electrical Energy Requirements of India and Solution Methods" organized by Coimbatore Institute of Technology, Coimbatore from 17th to 30th November 2008.

2. AICTE sponsored Short Term Training Programme on "Advanced machines for Electric Propulsion Systems" organized by Arunai Engineering College, Thiruvannamalai from 16th to 29th November 2009.

3. AICTE sponsored Short Term Training Programme on "FACTS controller Application in Transmission Line" organized by Adhiparasakthi Engineering College, Melmaruvathur from 12th to 25th June 2013.

4. ISTE sponsored Short Term Training Programme on "Cyber Security" organized by Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University, from 19.11.2018 to 2.12.2018.

5. Industrial Training program on "Communication and Networking Technologies organized by BSNL, Rajiv Gandhi Memorial Telecom training Centre (RGMTTC), GST road, Meenambakkam, Chennai, from 01.06.2020 to 19.06.2020.

Membership in professional body: ISTE