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➤ Google Scholar Link: <https://scholar.google.co.in/citations?user=LnWKSfUAAAAJ&hl=en>

➤ Anna University **Recognized PhD Supervisor** under Faculty of Electrical Engineering
(Recognition No.: 3330024)

Journal Publications

1. *Online Optimization Based Model Predictive Control on Two Wheel Segway System in materials today: Proceedings, Elsevier, May 2020 (Published Online). (Scopus)*
2. *Power Management Storage through Local Consumer Demand Control Using IOT in materials today: Proceedings, Elsevier, May 2020 (Published Online). (Scopus)*
3. *Detection of Moving Object in Dynamic Visual Sequences Based on Partial Least Squares Classifier in Journal of Medical Systems, vol. 43, no. 259, Springer, July 2019. (SCI)*
4. *Fault Data Injection Attack on Nonlinear Physical System and Mitigation Based on Interval Type2-Fuzzy Logic Controller in IET Cyber Physical Systems: Theory & Applications, OCT, 19, 2018. (Scopus)*
5. *Fuzzy PD Plus I Control based Adaptive Cruise Control System in Simulation and Real- time Environment in IETE Journal of Research, Taylor & Francis, vol. 64, pp. 1-11, 2018 , Print ISSN: 0377-2063, Online ISSN: 0974-780X, (SCI), IF- 0.909.*
6. *Formation Control of Cyber Physical Robots in Marine Applications in Indian Journal of Geo Marine Sciences, Vol. 47 (08), August 2018, pp 1-10, (SCI).*
7. *Anfis Classifier Based Moving Object Detection and Segmentation in Indoor and Outdoor Environments in Current Signal Transduction Therapy, Bentham Science, vol.14, no.1, 2019, pp 21-30. (Scopus).*
8. *ANN-based Maximum Power Point Tracking for a Large Photovoltaic Farm Through Wireless Sensor Networks in Current Signal Transduction Therapy, Bentham Science, vol.14, no.1, 2019, pp 38-48. (Scopus).*
9. *Implementation Analysis on Parallel Parking Scheme for Autonomous Robots based on Nonholonomic Constraints in Current Signal Transduction Therapy, Bentham Science, vol.13, 2018, pp 44-48. (Scopus).*
10. *Performance Investigation of SHE PWM Implementation of GA Based LCL Resonant Inverter in Marine Applications in Indian Journal of Geo Marine Sciences, Vol. 46 (09), Sept 2016, pp 1889-1898, (SCI).*
11. *Performance Investigation of Genetic Algorithm based LCL Resonant Converter in Marine Applications in Indian Journal of Geo Marine Sciences, Vol. 45(10), Oct 2016, pp 1377-1388, (SCI).*
12. *Closed Loop Performance Investigation Of Chopper Fed Dc Motor Using Various Controller in International Journal of Applied Engineering Research, Volume 10, Number 55 (2015).*
13. *A Soft Computing based Analysis on Moisture Control in Paper Industry in International Journal of Applied Engineering Research, Volume 10, Number 55 (2015).*
14. *Model Predictive Control Law of Buck-Boost Converter Based on Piecewise Affine Modelling in International Journal of Applied Engineering Research, Volume 10, Number 55 (2015).*
15. *Implementation Analysis of State Space Modeling and Control of Nonlinear Process Using PID Algorithm in MATLAB and PROTEUS Environment in the Applied Mechanics &*

- Materials Journal (ISSN:1660-9336) under the volume-573 titled “Advancements in Automation and Control Technologies” JUNE 2014 Edition.(Scopus)
16. ***An Integrated Design of Current Conveyor II based Analog PID Controller and Analyze the Control by using PID tuning rule*** in the Applied Mechanics & Materials Journal (ISSN:1660-9336) under the volume-573 titled “Advancements in Automation and Control Technologies” JUNE 2014 Edition.(Scopus)
 17. ***Implementation of Object Recognition based on Local Texture Operators in FPGA Technology*** in the Applied Mechanics & Materials Journal (ISSN:1660-9336) under the volume-573 titled “Advancements in Automation and Control Technologies” JUNE 2014 Edition. (Scopus)
 18. ***A Novel Approach for Content Based Microscopic Image Retrieval System Using Decision Tree Algorithm*** in International Journal of Scientific & Engineering Research MAY 2013 Edition. (Thomson Reuters)
 19. ***An Integrated & Efficient approach for Enhanced Medical Image Compression Using SPIHT & LZW coding*** in International Journal of Scientific & Engineering Research FEB 2013 Edition. (Thomson Reuters)
 20. ***An Early screening system for the detection of Diabetic Retinopathy using Image processing*** in International Journal of Computer Applications JAN 2013 Edition.
 21. ***An Efficient approach for the Real time Tracking of Intruder & Abandoned object detection*** in International Journal of Computer Applications SEP 2012 Edition.

Conferences

1. ***Development of Remote Monitoring the Soldiers with GPRS based Protection System*** in proceedings of International Conference on 4G Wireless Computer Networks (IC4GWCN 2011).
2. ***Thermoelectric Based Dual Processing Control Using Embedded Controller*** in proceedings of 2014 IEEE International Conference on Innovations in Engineering and Technology (ICIET'14) On 21st & 22nd March Organized by K.L.N. College of Engineering, Madurai.
3. ***Power and Clock Distribution Network Gate Logic*** in proceedings of International Journal of Electronic Communications Engineering Advanced Research (IJECEAR) Vol. 2, SP-1, Feb. 2014, Syed Ammal Engineering College, Ramanathapuram.
4. ***Implementation Analysis of Modelling and Control of a Self Balancing Segway*** in proceedings of International conference on recent computing and communication technologies on 20th March 2015 organized by St. Michael college of Engineering & Technology, Sivagangai.
5. ***Control of Nonholonomic Robots using Leader Follower Approach and PID controller*** in proceedings of International conference on recent computing and communication technologies on 20th March 2015 organized by St. Michael college of Engineering & Technology, Sivagangai.
6. ***Modelling and Control of Ball and Beam System using PID Controller*** in proceedings of 2016 IEEE International Conference on Advanced Communication Control and Computing Technologies organised by Syed Ammal Engineering College, Ramanathapuram.
7. ***Analysis on Soft Sensor Design in Simulink*** in proceedings of 2016 IEEE International Conference on Advanced Communication Control and Computing Technologies organised by Syed Ammal Engineering College, Ramanathapuram.
8. ***Autonomous Lane Parking System for Nonholonomic Vehicles*** in proceedings of 2016 IEEE International Conference on Advanced Communication Control and Computing Technologies organised by Syed Ammal Engineering College, Ramanathapuram.
9. ***Analysis on Control and Cyber Attack Detection for Obstacle Avoidance Robotic System*** in proceedings of 5th International Conference on Emerging Trends in Engineering and Technology 2018 organized by Pandian Sarasawathi Yadav Engineering College, Madurai.
10. ***Modelling and Control of Two Wheel Inverted Pendulum using Digital Controller*** in proceedings of 5th International Conference on Emerging Trends in Engineering and Technology 2018 organized by Pandian Sarasawathi Yadav Engineering College, Madurai.

Patent Publications

- **Patent Title:** G glass for Electrical Power Generation and Electrical Energy Storage
 - **Status:** Published
 - **Reference:** 201941046543 A
- **Patent Title:** G glass Smart Manufacturing Unit
 - **Status:** Published
 - **Reference:** 201941046540 A
- **Patent Title:** Performance Improvement of Induction generator in grid integrated wind energy conversion system
 - **Status:** Published
 - **Reference:** 201941046537 A
- **Patent Title:** High Performance Air Purifier Using Human Hair and Vetiver (Chrysopogan Zizanioides) as Filter Media
 - **Status:** Published
 - **Reference:** 201941051988 A

Book Publications

- **Dr.G.Prabhakar** and Dr.S.Selvaperumal, “**Embedded Systems**”, Anuradha Publications 2015.
- Dr.P.Marimuthu, **Dr.G.Prabhakar** and Dr.S.Selvaperumal, “**Mechatronics**”, Anuradha Publications 2016.
- Dr.M.Senthilkumar, **Dr.G.Prabhakar**, “Certain Investigations of Speed Control of DC Drives”, Lambert Academic Publishing, 2019.
- **Dr.G.Prabhakar**, “**Hydro Power Generation for Domestic Applications**”, Lambert Academic Publishing, 2020.
- Dr. K. Umamaheswari, **Dr. G. Prabhakar**, “**Hydro Power Generation for Domestic Applications**”, Notion Press Publishing, 2020.

Editor in Journals

- Act as a **Guest Editor** for the Special Thematic Issue “Emergence of Electrical & Electronic Systems on Health Industry under the journal of Current Signal Transduction Therapy, Bentham Science Publishers, in the year of 2019.
- Act as an **Editorial Board Member** in Journal of Marine Science, Bilingual Publishing, Singapore, 2019.
- Act as a **Guest Editor** for the Special Thematic Issue “Emergence of Electrical & Electronic Systems towards Cyber Physical Systems under the journal of Recent Advances in Computer Science and Communications, Bentham Science Publishers, in the year of 2020.

Reviewer

- Referee in Science and Engineering Research Board, DST, India. Also reviewed one project proposal related to Extra Mural Research Funding Scheme through online.
- Reviewer in IEEE Transactions on Mechatronics, IEEE Transactions on Control System Technology, IEEE Transactions on Intelligent Transportation Systems and IEEE conferences.
- Reviewer in IET Control Theory and Applications, IET Generation, Transmission & Distribution, IET Collaborative Intelligent Manufacturing.
- Reviewer in IEICE Transactions.