

Dr. Abdul Saleem P. K

Associate Professor

Department of Electrical Engineering
Government Engineering College Thrissur

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Google Scholar

EDUCATION

- **Indian Institute of Science** Bangalore, India
PhD, Guidance and Control April 2017
- **National Institute of Technology** Calicut, India
M.Tech., Instrumentation and Control July 2009
- **Regional Engineering College (REC)** Calicut, India
B.Tech., Electrical & Electronics Engineering April 1994
- **St. Josephs College Devagiri** Calicut, India
Pre degree June 1989
- **Markaz High School Karanthur** Calicut, India
SSLC June 1987

EXPERIENCE

1. Associate Professor at Government Engineering College, Thrissur from May 2018 on-wards
2. Associate Professor at Government Engineering College, wayanad from July 2017 to May 2018
3. Assistant Professor at Government Engineering College, wayanad from August 2016 to July 2017
4. Deputation for Ph.D under QIP at Indian Institute of Science Bangalore from August 2013 to July 2016
5. Assistant Professor at Government Engineering College, Kozhikkode from June 2012 to July 2013
6. Assistant Professor at Government Engineering College, Idukki from May 2011 to June 2012
7. Assistant Professor at Government College of Engineering, Kannur from May 2009 to May 2011
8. Deputation for M.Tech under QIP at National Institute of Technology Kozhikkode from July 2007 to May 2009
9. Lecturer at Government Engineering College Kozhikkode from October 2004- July 2007
10. Lecturer at Government Engineering College Wayanad from July 2004- October 2004
11. Assistant Electrical Inspector at Electrical Inspectorate Wayanad from July 2003 to July 2004
12. Lecturer at J.D.T Islam Polytechnic Calicut from July 1995 - July 2003

RESEARCH INTERESTS

1. Robotics Trajectory Planning and Trajectory Tracking
2. Guidance and Control of Autonomous Vehicles
3. Electric Vehicle
4. Partial Shading of Photovoltaic cells

STUDENTS

Ph.D ongoing

1. Vishnu P Madhanmohan (Thesis submitted)
2. Najva N
3. Abitha M. A.
4. Vishnu C
5. Able Alex
6. Hima T

M.Tech completed

1. Shafna Rasheed
2. Mintu Mathew
3. Amala Baby

Journal papers

1. Vishnu P Madhanmohan, Abdul Saleem, and M Nandakumar, "Improved Performance of Partially Shaded Photovoltaic Array with Reformed-Total Cross Tied Configuration", Energy Harvesting and Systems (Accepted for publication)
2. Lisy E R, Abdul Saleem, " A Robust Third Order Super-Twisting Controller with Reduced Chattering Effect for 2-dof TRMS", Gradiva Review Journal, vol. 7, NO. 3, pp. 17-37,2021
3. Vishnu P Madhanmohan, Abdul Saleem, and M Nandakumar, "An Algorithm for Enhanced Performance of Photovoltaic Array under Partial Shading Condition", IEEE Access, Vol 8, pp. 176947 - 176959, September 2020
4. Vishnu P Madhanmohan, M Nandakumar, and Abdul Saleem, "Enhanced performance of partially shaded photovoltaic arrays using diagonally dispersed total cross tied configuration", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, pp. 1-19, September 2020
5. Najva N and Abdul Saleem, "Model reference controller approach for robot arm tracking using neural networks", Indian Journal of Science and Technology, vol. 12, No. 39, pp. 1-10, October 2019
6. Vishnu P Madhanmohan, M Nandakumar, and Abdul Saleem, "Performance assessment of basic and hybrid photovoltaic array configurations under partially shaded conditions", Manipal Journal of Science and Technology, Vol. 4, No. 2, December 2019
7. Abdul Saleem and Ashwini Ratnoo, "Lyapunov-Based Guidance Law for Impact Time Control and Simultaneous Arrival", Journal of Guidance, Control, and Dynamics, vol. 39, No. 1, pp. 164-173, January 2016

Conference papers

8. C Vishnu, Abdul Saleem, "Smart Cell Equalizer for Lithium-ion Battery Packs", Proceedings of the International Conference on Communication, Control and Information Sciences (ICCISc), GEC Idukki, June 2021
9. Najva Hassan and Abdul saleem, "Neural Network Based TID Controller for Wheeled Mobile Robot Trajectory Tracking", Proceedings of the Sixth International Conference on Information and Communication Technology (ICICT 2021), London, United Kingdom, February 2021
10. Abitha M. A and Abdul Saleem, "Comparative Analysis of Path Control Strategies for Unmanned Quadrotor Aerial Vehicle", Proceedings of the International Conference on Power, Instrumentation, Control and Computing (PICC), GEC Thrissur, December 2020
11. Vishnu P Madhanmohan, M Nandakuamr, Abdul Saleem, "Durer's Square Based Photovoltaic Configuration to Mitigate Partial Shading Losses", Proceedings of the International Conference on Power Electronics and Renewable Energy Applications (PEREA), GEC Kannur, November 2020
12. Abdul Saleem and Ashwini Ratnoo, "Two stage proportional navigation guidance law for impact time control", Proceedings of the Indian Control Conference (ICC), IIT Kanpur, January 2018
13. Abdul Saleem and Ashwini Ratnoo, "MAV Waypoint Guidance with Arrival Angle and Time Scheduling Constraints", Proceedings of the AIAA Guidance, Navigation, and Control conference, San Diego, California, January 2016
14. Abdul Saleem and Ashwini Ratnoo, "A nonlinear guidance law for impact time control", Proceedings of the American Control Conference (ACC), Chicago, USA, July 2015
15. Abdul Saleem and Ashwini Ratnoo, "Guidance law for impact time control", Proceedings of the 13th IRF international Conference, Bengaluru, India May 2015

FUNDED PROJECT

- File No. 8-7/RIFD/RPS-NDF/Policy-1/2018-19 Dated 13-03-2019
- Sanctioning Authority: All India Council for Technical Education
- Title of the Project Work: Optimal Robotic Path Planning in Dynamic Environments Using Soft Computing Techniques
- Grant-in-aid Sanctioned: Rs. 1490000 (Fourteen Lakh Ninety Thousand only)

STTPs ORGANIZED

1. Faculty Development Program on School on Advanced Control System from December 9-14, 2019 sponsored by Director of Technical Education under Faculty and Staff Development Training Center
2. Faculty Development Program on Robotics and Artificial Intelligence from January 4-8, 2021 sponsored by All India Council for Technical Education (AICTE) Training and Learning (ATAL) Academy

STTPs ATTENDED

1. International faculty development program on Recent Trends in Control System Engineering Organized by Electronics & ICT Academy, NIT Patna from May 31-June 6 , 2021 sponsored by Ministry of Electronics and Information Technology, Govt. of India. inenumerate
2. International faculty development program on Robotics, Artificial Intelligence, and Control Organized by Department of Mechanical Engineering, NIT Calicut from February 3-8, 2020 sponsored by TEQIP III. inenumerate
3. Faculty development program on Hardware Realizable Neural Networks: Design Challenges and Research Opportunities Organized by NITTE Meenakshi Institute of Technology, Bengaluru, from July 15-27,2019, sponsored by All India Council for Technical Education, New Delhi.
4. Faculty development program on Research: from Scratch to Success Organized by Department of Electrical Engineering, from January 7-11,2019, sponsored by Technical Education Quality Improvement Program
5. Faculty development program on Capability Enhancement Program for Staff Advisors Organized and sponsored by Director of Technical Education from June 18-June 23, 2018 held at College of Engineering Trivandrum.
6. Faculty development program on Control Systems: Theory and Applications Organized by faculty and Staff Development Training Center, from December 4-8, 2017, sponsored by Director of Technical Education

ADDITIONAL RESPONSIBILITIES

1. Assistant convener, M.Tech Thrissur cluster, APJ Abdul Kalam Technological university (KTU)
2. Staff Advisor, B.Tech. 2018 admission (2018-22 batch)
3. Coordinator, Internal Exams, Department of Electrical Engineering, GEC Thrissur (2019 onwards)
4. Coordinator, B.Tech. Electrical & Electronics of GEC Thrissur, NBA Accreditation (2019)
5. Resident Tutor, GEC Thrissur Men's hostel (2018 onwards)
6. Faculty in charge of Advanced Electrical Engineering Lab
7. Coordinator, Internal Exams, GEC wayanda (207-18)
8. Secretary, PTA, GEC Wayanad (2017)