


Faculty Profile

<p>Dr. P. S. Shenil</p> <p>Associate Professor Dept. of Electrical & Electronics Engineering</p>	
<p>Phone : 9495386544</p> <p>Email : shenilps@gmail.com</p>	
<p>Qualifications</p>	
	<p>B.Tech. – Electrical and Electronics Engineering M. Tech. – Instrumentation and Control Ph. D. – Instrumentation</p>
<p>Area of Interest</p>	
	<p>Resistive, capacitive, and inductive sensors and their applications, Sensor Interface Electronics, Sensors for power system and Industrial applications, Measurements, and Instrumentation.</p>
<p>Professional Experience</p>	
	<p>Assistant Professor – 2008-2019 Associate Professor – 2019 onwards</p>
<p>Recently taught courses</p>	
	<p>Network Analysis and Synthesis Linear Control Systems</p>
<p>Awards/Recognitions/Achievements</p>	
	<p>Prof. Achim Bopp Endowment Prize (Best hardware project award for M.Tech. – 2013 from IIT Madras)</p>
<p>Patent Filed:</p>	
<p>P. S. Shenil and Bobby George, “An Instrumentation System With a Fully Non - Intrusive Probe for AC Voltage Measurement”, I P Application No. 202041053254, Date: 07/12/2020</p>	

Important Publications:

International Journals

1 **P. S. Shenil** and B. George, "Nonintrusive AC Voltage Measurement Unit Utilizing the Capacitive Coupling to the Power System Ground," in *IEEE Transactions on Instrumentation and Measurement*, vol. 70, pp. 1-8, 2021, Art no. 3507708, doi: 10.1109/TIM.2020.3044757.

2 **P. S. Shenil** and B. George, "Evaluation of a Digitizer Designed to Interface a Non-Intrusive AC Voltage Measurement Probe," in *IEEE Sensors Journal*, vol. 20, no. 10, pp. 5606-5614, 15 May 2020, doi: 10.1109/JSEN.2020.2971547.

3 **P. S. Shenil** and B. George, "Development of a Nonintrusive True-RMS AC Voltage Measurement Probe," in *IEEE Transactions on Instrumentation and Measurement*, vol. 68, no. 10, pp. 3899-3906, Oct. 2019, doi: 10.1109/TIM.2019.2916959.

International Conferences

1 **P. S. Shenil** and B. George, "A PC based hysteresis loop extractor and its applications," *2013 IEEE 3rd International Conference on Instrumentation Control and Automation (ICA)*, 2013, pp. 51-56, doi: 10.1109/ICA.2013.6734045.

2 **P. S. Shenil**, R. Arjun and B. George, "Feasibility study of a non-contact AC voltage measurement system," *2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) Proceedings*, 2015, pp. 399-404, doi: 10.1109/I2MTC.2015.7151301.

3 **P. S. Shenil** and B. George, "An efficient digitizer for non-intrusive ac voltage measurement," *2017 IEEE International Instrumentation and Measurement Technology Conference (I2MTC)*, 2017, pp. 1-6, doi: 10.1109/I2MTC.2017.7969807.

4 **P. S. Shenil** and B. George, "An Auto-Balancing Scheme for Non-Contact AC Voltage Measurement," *2018 IEEE 9th International Workshop on Applied Measurements for Power Systems (AMPS)*, 2018, pp. 1-5, doi: 10.1109/AMPS.2018.8494863.

5 J. S. Sreelekshmi, M. S. Navin and **P. S. Shenil**, "Guidance with Supersonic Retropropulsion for Mars Pinpoint Landing," *2019 IEEE International Conference on Computer Communication and Informatics (ICCCI)*, 2019, pp. 1-6, doi: 10.1109/ICCCI.2019.8822162.

6 Athira.M. and **Shenil. P.S.**, "Novel Regenerative Braking Controllers for Electric Vehicle Driven by BLDC Motor," *2021 IEEE Fourth International Conference on Electrical, Computer and Communication Technologies (ICECCT)*, 2021, pp. 1-6, doi: 10.1109/ICECCT52121.2021.9616660.

7	A. Jose, A. Pachath, A. Rajesh, P. Chandhan and P. S. Shenil , "FPGA Based Novel Architecture for Real-time Video Stitching," <i>2021 IEEE Innovations in Power and Advanced Computing Technologies (i-PACT)</i> , 2021, pp. 1-7, doi: 10.1109/i-PACT52855.2021.9697035.
8	V. P. Vishal and P. S. Shenil , "PMU Based Realtime Fault Detection Algorithm for Transmission Line Faults," <i>2021 IEEE Fourth International Conference on Electrical, Computer and Communication Technologies (ICECCT)</i> , 2021, pp. 1-5, doi: 10.1109/ICECCT52121.2021.9616969.