

<b>Name</b>	P.J.RAGU			
<b>Designation &amp; Department</b>	ASSISTANT PROFESSOR & BME			
<b>Qualification</b>	M.E.,(Ph.D)			
<b>Area of Specialization</b>	CONTROL AND INSTRUMENTATION			
<b>Date of Joining (KSRIET)</b>	01.07.2022			
<b>Experience (as on 30.01.2024)</b>	<b>Teaching: 1.7</b>	<b>Industry: 07</b>	<b>Others: Nil</b>	
<b>Number of Papers Published</b>	<b>National Journals :Nil</b>	<b>International Journals :06</b>		
<b>Number of Papers Presented</b>	<b>National Conferences:06</b>		<b>International Conferences: 08</b>	
<b>Books Published</b>	<b>National Publisher :Nil</b>	<b>International Publisher :01</b>		
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### **Publications (International Journals)**

- P. Hari Krishnan and P. J. Ragu, “Controlling Power Flow Losses in UPFC system Using Adaptive Neuro-Fuzzy Controller”, International Journal of Research in Engineering and Technology, 2014, Vol. 03, pp. 558-563.
- P. J. Ragu, “Self Tuning Based Adaptive Fuzzy Logic Controller in Lab view for Sterilizing Equipments”, IAES International Journal of Artificial Intelligence (IJ-AI), 2014, Vol. 3, No. 2, pp. 84-89.
- P. J. Ragu and R. Swathi Sri, “Controlling of Surgical Robotics Platform for Endoscopic using Fuzzy Logic Controller”, International Research Journal of Modernization in Engineering Technology and Science, 2022, Vol. 04, Issue. 06, pp. 3478-3484.
- P. J. Ragu, T. Yamunarani, V. D. Nandhini and B B Sangameswaran, “Self-Operational Adaptive Neural Networks in ECG Classification”, Journal of Emerging Technologies and Innovative Research, 2023, Vol. 10, Issue. 03, pp. 823-827.
- Kavın Kumar K, Nandhini V D, Kowsalya M, Ragu P J, Raghapriya N R and Maheswaran S, Designing and validating an MD5 Hash Algorithm using the UVM Verification Framework and Checkers”, IEEE, 2023.
- P. J. Ragu, Sivanesan A-L Arumugam, Asmarashid Bin Ponniran, Wan Suhaimizan Bin

Wan Zaki, Mohd Helmy Bin Abd Wahab and Riyaz Ahmad Bin Mohamed Ali, "Post-Traumatic Stress Disorder (PTSD) Analysis using Machine Learning Techniques", IEEE, 2024.

### **Publications (National Journals)**

Nil

### **Publications (International Conferences)**

- P. J. Ragu, "Automotive Network Diagnostics and Crash Data Retrieval Systems using PLC & SCADA", International Conference on Communication and Computer Vision 2013 (ICCCV'13), 20<sup>th</sup> & 21<sup>st</sup> December 2013.
- P. J. Ragu, "Controlling Power flow in UPFC System using fuzzy with PI Controller", International Conference on Research Vagues in Inventive Engineering (LYCANS), 26<sup>th</sup> February 2014.
- P. J. Ragu, "Controlling Power flow in UPFC System using PID Controller", International Conference on Innovation in Information, Embedded and Communication Systems, 13<sup>th</sup> & 14<sup>th</sup> March 2014.
- P. J. Ragu, "Controlling Power flow in UPFC System using Adaptive Neuro-fuzzy Controller", International Conference on Trends in Technology for Convergence (TITCON-2014), 8<sup>th</sup> & 9<sup>th</sup> April 2014.
- P. J. Ragu, "Detection of Liver Diseases in Computed Tomography Scan Images using Artificial Intelligence", International Conference on Recent Trends in Electronics and Communication (ICRTEC 2023), 10<sup>th</sup> & 11<sup>th</sup> February 2023.
- P. J. Ragu, "Safety System for Drivers by Analyze Brain Waves and Heart Rate using BCI and IOT", International Conference on Recent Innovations in Engineering and Technology (ICRIET 2023), 5<sup>th</sup> & 6<sup>th</sup> April 2023.
- Kavin Kumar K, Nandhini V D, Kowsalya M, Ragu P J, Raghapriya N R and Maheswaran S, "Designing and validating an MD5 Hash Algorithm using the UVM Verification Framework and Checkers", 14th International Conference on Computing Communication and Networking Technologies (ICCCNT 2023), 6<sup>th</sup> to 8<sup>th</sup> July 2023.
- P. J. Ragu, Sivanesan A-L Arumugam, Asmarashid Bin Ponniran, Wan Suhaimizan Bin Wan Zaki, Mohd Helmy Bin Abd Wahab and Riyaz Ahmad Bin Mohamed Ali, "Post-Traumatic Stress Disorder (PTSD) Analysis using Machine Learning Techniques", First International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAECCI 2023), 19<sup>th</sup> & 20<sup>th</sup> October 2023.

### **Publications (National Conferences)**

- P. J. Ragu, "An Artificial Neural Network (ANN) PID Controller using UPFC", National Conference on Emerging Trends in Power, Instrumentation and Real Time Systems (ETPIR 12), 9<sup>th</sup> March 2012.

- P. J. Ragu, “An Artificial Neural Network Controller PI Controller for UPFC Systems”, National Conference on Power System Engineering, 29<sup>th</sup> & 30<sup>th</sup> March 2012.
- P. J. Ragu, “Controlling Power flow in UPFC System using Neuro fuzzy Controller”, National Conference on Innovations in Computer Technology & Communication (NCICTC-2014), 28<sup>th</sup> February 2014.
- P. J. Ragu, “Controlling Power flow in UPFC System using fuzzy Controller”, National Conference on Advanced Technologies (NICAT’14), 15<sup>th</sup> March 2014.
- P. J. Ragu, “Optimization of Main Parameters of Boiler using ANFIS with PID Controller”, National Conference on Challenges and Opportunities for Mechanical Engineers (COME 2014), 28<sup>th</sup> March 2014.
- P. J. Ragu, “Speech Emotion Recognition using Deep Learning”, National Conference on Data Engineering and Communication Technology (NCDECT 2023), 24<sup>th</sup> & 25<sup>th</sup> February 2023.

### Patents published

S.No	Patent ID	Title of the Patent	Patent Level / National	Publication Date
1.	202321000166 A	Heart Disease Detection using Big Data Analytics & Deep Learning Approach With Python	National	21 <sup>st</sup> January 2023
2.	202321019566 A	Understanding the Effect of Singing Bowl Meditation on Cardiovascular Activity: A Heart Rate Variability (HRV) Approach	National	07 <sup>th</sup> April 2023
3.	202321031106 A	Risk Analysis of Abdominal Cancer Prognosis in Early Stage	National	16 <sup>th</sup> June 2023

### Books / Instruction materials / monograms published

S.No	Title of the Book	Author(s)	Name & Address of the Publisher	Year of Publishing
1.	Implementing AI Solution in Hospital and Healthcare Institutions	Mr.S.Pameswaran, Mrs.P.Arulmozhi, Mr.P.J.Ragu, Ms.V.D.Nandhini	Cosmas Scientific Publications	2023

## Awards Won

S.No	Name of the Award	Academic Year
1.	Best Paper Award 2023	2022-2023
2.	Young Researcher Award 2023	2022-2023
3.	Young Achiever Award 2023	2022-2023

## Funded Research Projects

S.No	Title of the Project	Name of the Funding Agency	Amount Sanctioned (Rs.)	Role
	Nil			

## Funded Programmers Organized (Seminar/Conference/Workshop/FDP/STTP/Other)

S.No.	Sponsored by	Name of the Event	Topic / Title	Date of the Event
1.	-	Value Added Course	Utilization of Measuring Instruments	10.08.2022 to 14.08.2022
2.	-	Value Added Course	AR/VR Training for Biomedical Applications	07.10.2022 to 09.10.2022
3.	-	Workshop	Biomedical Instrumentation Equipments	03.01.2023 to 04.01.2023
4.	-	Workshop	Calibration of Medical Equipments	28.04.2023
5.	-	Value Added Course	Critical Care Equipments	07.08.2023 to 12.08.2023
6.	-	Value Added Course	Operational Theatre Equipments	14.08.2023 to 19.08.2023
7.	-	Seminar	Importance of Medical Device Regulation	30.08.2023
8.	-	Workshop	Analysis of Psychological effects at workspot – A practical approach	11.09.2023 to 12.09.2023
9.	-	Seminar	Medical Image Processing	23.09.2023
10.	NEURAA AI Solutions private Limited	Workshop	Artificial Intelligence and Machine Learning	08.01.2024 to 12.01.2024

**List of Programmers Attended (Seminar/Conference/Workshop/FDP/STTP/Other)**

<b>S.No.</b>	<b>Sponsored by</b>	<b>Name of the Organizer</b>	<b>Topic / Title</b>	<b>Date of the Event</b>
1.	-	BNEC	Seminar on Lab view Software	11.09.2009
2.	-	Prolific Systems & Technologies (P) Ltd	Training Course on PLC and SCADA	25.02.2011 to 13.03.2011
3.	-	BNEC	Training Course on Mobile Phone Technology	22.09.2011 to 04.10.2011
4.	-	GCT	Seminar on Advanced Control Techniques for Industrial Applications	19.10.2013
5.	-	IFERP	Seminar on Scope, Opportunities and Challenges for E-Vehicle in India	12.09.2020
6.	-	IFERP	Seminar on Modelling of Biomedical applications using Neural Networks in International Short Term Training Program held in India	16.09.2020
7.	-	IFERP	Seminar on Cognitive Radio-Wireless Sensor Networks-Applications & Challenges	19.09.2020
8.	-	IFERP	Seminar on Computing & Signal Processing in IOT Applications	09.10.2020
9.	-	IFERP	Seminar on Artificial Intelligence & Machine Learning using Python	10.10.2020
10.	-	IFERP	Seminar on Renewable Energy System and Sustainability-Education, Research and Outreach	16.10.2020
11.	-	IFERP	Seminar on Recent Development in Nanostructured Metals and Alloys	25.10.2020
12.	-	IFERP	FDP on Teaching and Learning in Higher and Professional Education – the Challenges and Opportunities	18.04.2022
13.	-	IFERP	Seminar on Evolution of Intelligent Systems	11.05.2022
14.	-	IFERP	Seminar on Advanced Emerging Technologies, Research and Practical Applications	18.05.2022
15.	-	IFERP	Seminar on Career after Engineering	15.06.2022
16.	DBT	Kongu Engineering College	Seminar on Current Trends in Machine Learning and Medical Imaging Approaches in Health Care	21.07.2022 to 22.07.2022

17.	-	Universiti Tun Hussein, Malaysia	Seminar on Insight into Research Publications	18.04.2023
18.	-	Hindusthan College of Engineering and Technology	FDP on Radiological Equipments	08.05.2023 to 12.05.2023
19.	IETE	Amrita Vishwa Vidyapeetham, Coimbatore	Workshop on Artificial Intelligence for Biomedical Signal and Image Processing	10.07.2023 to 12.07.2023
20.	-	Sree Sakthi Engineering College	FDP on Current trends in Engineering, Science and Technology	03.07.2023 to 08.07.2023
21.	-	SRM Institute of Science and Technology	Workshop on Advanced Research Methodology	03.07.2023 to 18.07.2023
22.	-	Sarala Birla University, Ranchi	STTP on Scientific Writing and Research	31.07.2023 to 04.08.2023
23.	-	Alpha College of Engineering	FDP on BM3301- Sensors and Measurements	03.08.2023 to 05.08.2023
24.	-	SRM Institute of Science and Technology	FDP on Future Direction in Image Processing	30.10.2023 to 04.11.2023
25.	-	SRM Institute of Science and Technology	FDP on Modern Medical Instrumentation	04.12.2023 to 08.12.2023
26.	-	SRM Madurai College for Engineering and Technology	FDP on Quality Concepts and Research Issues in Engineering Applications	11.12.2023 to 16.12.2023
27.	-	Sri Krishna College of Engineering and Technology	FDP on Modern Research Convergence in Next Generation Computing	18.12.2023 to 22.12.2023
28.	-	Sathyabama Institute of Science and Technology	FDP on Emerging Paradigms in Biomedical Healthcare Applications	18.12.2023 to 22.12.2023
29.	-	Rajalakshmi Engineering College	Exploring the nexus of industry 4.0 and healthcare- context, applications, advantages and challenges	18.01.2024 to 24.01.2024

### Online Certification

S.No	Course	Conducted by	Date	Grade
	Nil			

### **Consultancy Activities (Industry)**

<b>S.No</b>	<b>Title of the Project</b>	<b>Name of the Company</b>
<b>1.</b>	Nil	

### **Training Offered**

- Inplant Training at Seshasayee Paper And Boards Private Ltd, Erode.
- Inplant Training at Ponni Sugar Ltd, Erode.

### **Membership in Professional Bodies**

- International Society of Research and Development (ISRD) – Life Member (M3140900568)
- Journal of Emerging Technologies and Innovative Research – (Member ID: 222283)
- International Journal of Creative Research Thoughts – (Member ID : 117839)
- National Institute For Technical Training & Skill Development – (Member ID: NITTSD/INDUSTRIAL PROFESSIONAL/33765)
- All India Council For Technical Skill Development – (Member ID: AICTSD/PROFESSOR/65187)
- International Association of Engineers - (Member No: 153959)
- International Journal of Research in Electrical Engineering – (Reviewer ID: RV14EIE40050)
- Institute of Research Engineers and Doctors – (Membership No: AM10100052747)
- The Institute of Green Engineers (IGEN) – (Member ID : 13478)