Name: **Dr. B. PANJAVARNAM**	
Designation:	ASSOCIATE PROFESSOR
Qualification:	B.E,M.B.A,M.E,PhD
PhD Thesis Title	GAME THEORY BASED RESOURCE SCHEDULING TO ENHANCE THE QoS IN LTE
Funded project (Ongoing)	1. IEEE-EPIC-"GAIA-Smart and Sustainable Forest"(2023) 2. IEEE-EPIC-" An AI Powered Telemedicine Kiosk"(2026)
Area of specialization:	Biomedical Engineering, Long Term Evolution Networks, WirelessNetworks-4Gand5G,Telemedicine,ImageProcessing, Artificial Intelligence

Experience:(As on July 2025)	**Industrial Experience**		**Teaching Experience**	
	-		26.6	
Number of workshop/ FDP attended:	**Number of Workshops**		**Number of FDPs**	
	14		14	

Publications:	**Conference**		**Journal**	
	National	**International**	**National**	**International**
	8	10	3	3

Patents:	**National**	**International**
	6	-

Professional Body Membership:	IETE,IEEE,ISTE

Research Areas of Interest: Human Resource Management, Medical Electronics, Telemedicine, Image and Video Processing, Quality of Service (QoS) enhancements in LTE/ 5G Networks. Artificial Intelligence, Machine Learning, AR/VR.

Roles: College Alumni President, Student Mentor, Class Coordinator, Committee Member during the expert visits from NBA, NAAC, ISO,UGC, BIS.

Staff Achievements:	Received IEEE-EPIC Funds for two projects Submitted one DST proposal and one Indo-Portugal Proposal Eminent Researcher Award (I2OR-2020) Academic Excellence Award (GreenThinkerz-2021) ATAL Best mentor Award-2021
Community Engagement	1. Reviewer-International Journals 2. Conference paper reviewer 3. Technical Program Committee Member of Future TrendinInternet of Things 4. Technical Program Committee Member of Women in Healthcare Technologies (WITH) 5. Technical Program Committee Member of Women in Science & Engineering (WISE) 6. Technical Program Committee Member of Advances of Artificial Intelligence and Data Science for Detection, Prevention and Treatment of COVID-19 Pandemic

College and Department level Responsibilities	1. College Alumni President – Co-coordinating all the departments regarding all the Alumni activities including Alumni meet, Alumni guest lectures, Alumni interactions..etc
	2. Department Alumni and Higher studies in-charge.(15years)
	3. Class Coordinator (Batches:2005-2009,2010-2014,2013-2017, 2016-2020, 2019-2023, 2022-2026 and mentor for 15 students from the same batches.
	4. Cultural coordinator-more than 8 times
	5. NBA criteria 4-filein-charge of alumni and higher studies
	6. Project Coordinator-for batches 2014,2017,2020,2023 and few earlier batches too.
	7. TIES15-One of the team member.
	8. Symposium coordinator-ZENISTA'12
	9. Organized FDP on Embedded and Real time systems on 6th to 13th June 2016.
	10. Active member of all the college activities anytime.

Work shop Details:	Sl. No	Title	Venue	Month/ Year
	1	WEBINAR ONMACHINE LEARNINGIN WIRELESS COMMUNICATION:5G ANDBEYONDWEBINAR ONMACHINELEARNING INWIRELESS COMMUNICATION:5G ANDBEYOND	IETE CHENNAI CENTRE	9TH DECEMBER 2022

\	2	RAPIDPROTOTYPING-IOT ANDEMBEDDEDSYSTEM DESIGN	DEPARTMEN TOFECE,SRI SAI RAM ENGINEERIN GCOLLEGE IN COLLABORA TIONWITH M/S.DIGITAL SHARK TECHNOLO GYPVT. LTD, BENGALUR U UNDER TEXAS INSTRUMEN TS	12THTO14TH NOVEMBR 2018
	3	CONFERENCETUTORIAL ON MULTICORE ARCHITECHTURES	MIT,ANNA UNIVERSITY, CHENNAI.	16th MARCH 2017
	4	WORKSHOPON EMERGINGTRENDSAND FUTUREPERSPECTIVEIN IMAGE PROCESSESING ANDCOMPUTERVISION	DEPARTMENT OFECE,SRI SAIRAM INGINERRING COLLEGE	4thto6th JUNE 2017
	5	WORKSHOPONINTERNET OFTHINGS(IoT)	MIT,ANNA UNIVERSITY, CHENNAI.	5thto6th JANUARY 2016

	6	WORKSHOPONRECENT RESEARCHTECHNIQUES IN NEXT GENERATION WIRELESS TECHNOLOGIES	CEG,GUINDY CHENNAI	21st-22nd August 2015
	7	WORKSHOP ON CONVEX OPTIMIZATION AND RANDOMPROCESSESFOR WIRELESS COMMUNICATION SYSTEMS	THIAGARAJAR COLLEGE OF ENGINEERING	5thto7th March 2015
	8	WORKSHOPONSIGNAL PROCESSENG ANDAPPLICATIONS	UNIVERISTY COLLEGE OF ENGINEERING KANCHEEPURAM	5thFebruary 2014
	9	AUTHORWORKSHOPON BOOK/JOURNAL PUBLISHING	CEG,GUINDY, ANNA UNIVERSITY.	24thSep2014
	10	WORKSHOPONLTE-A	MIT,ANNA UNIVERSITY, CHENNAI.	10thto11thOctober 2014

	Sl. No	Title	Venue	Month/ Year
	11	NATIONAL LEVEL WORKSHOP ON WORK LIFE BALANCE FOR ENGINEERING AND MANAGEMENTFACULTY	SRI SAIRAM ENGINEERING	16th to22nd F EB2012
	12	WORKSHOPONARTOF JOURNALANDTHESIS WRITING	SRI SAIRAM ENGINEERING	19TH JAN 2012
	13	INTERNATIONAL WORKSHOP ON BIOMEDICALSCIENCES AND TECHNOLOGIES	ANNA UNIVERSITY	2nd to 4thMAR CH2011
	14	NATIONAL WORKSHOP ON 'RECENT TRENDS IN WIRELESSINFORMATION NETWORKANDSYSTEM'	SRI SAIRAM ENGINEERING COLLEG	1ST FEBRUA RY 2008
	Sl. No	Title	Venue	Month/ Year

FDP Details:	1	STAFF DEVELOPMENT PROGRAMME ON INSTRUCTIONALDESIGN & DELIVERY	SRI SAIRAM ENGINEERING COLLEGE	12TH MAY 2008
	2	VIRTUAL INSTRUMENTATIONIN INDUSTRIAL AUTOMATION	SRISAIRAM ENGINEERING COLLEGE	JUNE24TH AND25TH 2011
	3	SDPONINFORMATIONIN TELEMEDICINE&E-HEALTH	SRISAIRAM ENGINEERING COLLEGE	9TH TO21ST JULY2007
	4	98th INDIANSCIENCE CONGRESS	SRM UNIVERSITY	3rd to7th JAN 2011
	5	NATIONALCONFERENCE ONSIGNALPROCESSING COMMUNICATION AND VLSI DESIGN	AUT COIMBATORE	MAY6TH &7TH 2011
	6	ENGINEERING &MANAGEMENTTEACHING STRATEGIES FOR EXCELLENCE	SRI SAIRAM INSTITUTE OF MANAGEMENT STUDIES	29TH & 30TH DECEMBER 2014

	7	ENTREPRENEURSHIP CAREERDEVELOPMENT PROGRAM	SRI SAIRAM INSTITUTE OF MANAGEMENT STUDIES	8THTO 12THAPRIL 2019
	8	FDP ON ELECTRON DEVICES, MICROPROCESSORSAND IMAGE PROCESSING	SRM VALLIAMMAI ENGINEERING COLLEGE	11THTO15TH MAY 2020
	9	FDPONGETREADYFOR AIWITHMATLABAND SIMULINK	SRI SAIRAM ENGINEERING COLLEGE	18THTO20THJUNE 2020
	10	FDPON"3DPRINTING&DESIGN"	EXCEL ENGINEERING COLLEGE.	19THOCTOBER TO 23RDOCTOBER 2020
	11	FDPON"TOWARDS5G COMMUNICATIONS& BEYOND WITH IOT, MACHINE LEARNING"FROM	OA COLLEGE OF ENGINEERING	23RDNOVEMBERTO 27THNOVEMBE R 2020
	12	FDP ON AUGMENTED REALITYANDVIRTUAL REALITY	SRI SAIRAM ENGINEERING COLLEGE	27THTO29TH MAY 2020

	13	FDP ON EMPOWERING THE DIGITAL ERA THROUGH ADVANCES IN ARTIFICIAL INTELLIGENCE, DATA SCIENCE AND AUTOMATION	SRI SAIRAM ENGINEERING COLLEGE	28.11.25-4.12.25
	14	National level FDP on AI Tools	SRM Institute of Science and Technology	17.2.25-21.2.25
Conference Publication Details:	**Sl. No.**	**Title**	**Venue**	**Month/ Year**
	1	NATIONALCONFERENCE ON ADVANCEMENT IN EMERGING TECHNOLOGIES	MEENAKSHI SUNDARARAJA N ENGINEERING COLLEGE	JANUARY 25, 2008
	2	3rd NATIONAL CONFERENCEONSIGNAL PROCESSING , COMMUNICATION AND VLSI DESIN	ANNA UNIVERSITYOF TECHNOLOGY COIMBATORE	MAY6&7 2011

	3	NATIONAL CONERENCE ONRECENTADVANCESIN WIRELESS COMMUNICATION FOR THE DESIGN OF SMART ANTENNAS	ANNAMALAI UNIVERSITY CHIDAMBARAM	OCTOBER 22, 2016
	4	SECONDINTERNATIONAL CONFERENCE ON COMPUTING AND COMMUNICATIONS TECHNOLOGIES-ICCCT'17	SRI SAIRAM ENGINEERING COLLEGE	FEBRUARY 23& 24 2017
	5	4TH INTERNATIONAL CONFERENCEONSIGNAL PROCESSING, COMMUNICATIONSAND NETWORKING (*ICSCN* - 2017)	MIT, ANNA UNIVERISTY CHENNAI	MARCH16 -182017
	6	NINTHINTERNATIONAL CONFERENCE ON ADVANCEDCOMPUTING (ICOAC)	MIT, ANNA UNIVERISTY CHENNAI	14–16 December 2017.
	7	IC3IOT-2ND INTERNATIONAL CONFERENCE ON COMPUTING, COMMUNICATIONAND INTERNET OF THINGS	SRI SAIRAM ENGINEERING COLLEGE, CHENNAI	20-22- FEBRUARY 2020
	8	IEEE INTERNATIONAL CONFERENCEONSMART TECHNOLOGIES IN COMPUTING,ELECTRICAL AND ELECTRONICS (ICSTCEE),	REVA UNIVERSITY, BANGALURU	October 2020.

9	AI-POWERED ROBOTICS AND COVID-19: CHALLENGES AND OPPORTUNITIES	CHAPTER6,CRC PRESS,TAYLOR& FRANCISGROUP, USA,	2020.
10	OPPORTUNITIES OF ADOPTING AI- POWERED ROBOTICS TO TACKLE COVID-19", 2020.	IEEE 13TH INTERNATIONAL CONFERENCE ON COMMUNICATION SYSTEMS &NETWORKS (COMSNETS)	2020
11	AUTOMATIC HEALTH MACHINEFORCOVID-19AND OTHER EMERGENCIES",	IEEE 13TH INTERNATIONAL CONFERENCEON COMMUNICATIO N SYSTEMS &NETWORKS (COMSNETS),	2020.

	12	AUTOIMPILO:SMART AUTOMATED HEALTH MACHINE USING IOT TO IMPROVE TELEMEDICINE AND TELEHEALTH	IEEE INTERNATIONAL CONFERENCEON SMART TECHNOLOGIESIN COMPUTING, ELECTRICALAND ELECTRONICS (ICSTCEE),	2020, PP.487-493.
	13	MEDRONE	2024IEEE International Conference for Women in Innovation, Technology &Entrepreneurship (ICWITE 2024)	June2024
	14	Puzzle Lock System For Vehicle Safety	IC3IoT-24	Aug 2024
	15	NetworkTrafficPredictionin4G-LTEUsing Machine Learning Techniques	IC3IoT-24	Aug 2024

Patents

1. Machine Learning Based Security for Cloud Computing. Indian Patent. October 2023. Design Number: 397247-001.
2. Safety and Sustainability mission– A fun Learning game for kids, 4/11/2024 202441083987
3. Smart City Transportation Management System using IoT and AI. 22/10/2023, 398236-001
4. Method and Computing Device for Implementing Video Super Resolution in Real-time and Non-real Time". Indian Patent, December 2020. Filing Number – 202041052684.
5. Method and Automated Health Machine for Providing Healthcare Services To Patients Using IoT. Indian Patent, October 2020. Filing Number – 202041047240.
6. Toll Gate Innovations: Easing the Traffic and Boosting the Safety, Indian Patent, October 2025. Filing Number 202541096493.

Selected Publications

- B Panjavarnam, N Kanimozhi, S Rashmath Nisha and N Dharini " Quantum-Inspired Improved African Optimization algorithm for efficient placement of IoT services in edge computing environment" , Scientific Reports, Volume 16, December 2025. 3711(2026).
- P. Pabitha, K. Nivitha C. Gunavathi , **B. Panjavarnam "**A chameleon and remora search optimization algorithm for handling task scheduling uncertainty problem in cloud computing", Sustainable-Computing-Informatics-and-systems, Volume 41, January 2024, 100944.
- Panjavarnam B, Kaushik Johnson M, Praneshwaran K.T, Pravin Kumar S "MEDRONE", IEEE International Conference for Women in Innovation, Technology & Entrepreneurship (ICWITE), April 2024.
- B Panjavarnam, R Sivaranjani, G Jayashree, G Lavanya, S Thrisha "Puzzle Lock System For Vehicle Safety", IEEE International Conference on Communication, Computing and Internet of Things (IC3IoT), June 2024

- **Panjavarnam. B**, P.T.V Bhuvaneswari, "Quality of Service Analysis of Video Streaming in 4G-LTE for Telemedicine Applications: An Experimental Learning with Game Theory Approach", The International Journal of Electrical Engineering & Education (IJEEE), SAGE, February 2020.
- Kajol Mohanty, Subiksha S, Kirthika S, Sujal BH, Sumathi Sokkanarayanan, **Panjavarnam Bose**, MithileyshSathiyanarayanan, "AI-powered Robotics and Covid-19: Challenges and Opportunities", Chapter 6, CRC Press, Taylor & Francis Group, USA, 2020.
- KajolMohanty, Subiksha S, Kirthika S, Sujal BH, Sumathi Sokkanarayanan, **Panjavarnam Bose,** Mithileysh Sathiyanarayanan, "Opportunities of Adopting AI- Powered Robotics to Tackle COVID-19", IEEE 13th International Conference on Communication Systems & Networks (COMSNETS),2020.
- Divya, G, Gayathri, S, Sumathi, S, **Panjavarnam.B**, Sharanya, R, Mithileysh, S, "Automatic Health Machine for COVID-19 and Other Emergencies", IEEE 13th International Conference on Communication Systems & Networks (COMSNETS),2020.
- Divya, G, Gayathri, S, Sumathi, S, **Panjavarnam.B,**Sharanya, R, Mithileysh, S, "AutoImpilo: Smart Automated Health Machine using IoT to Improve Telemedicine and Telehealth," IEEE International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE), 2020, pp.487-493.
- **Panjavarnam.B** "Quality of Service Optimization of Ultrasound Video Streaming over LTE Network," *TEST Engineering and Management (Scopus)*, vol. 82, pp. 294-299, Jan. 2020.
- **Panjavarnam. B**, Saranya P, AnithaS Surya.R, "Non-Invasive Blood Group Detection" Journal of Emerging Technologies and Innovative Research", Vol.6, Issue 5, pp. 139-143, May.2019.
- **Panjavarnam. B,** P.T.V Bhuvaneswari, "Suitability Analysis of Fractal Compression Techniques for Medical Image," Ninth International Conference on Advanced Computing, MIT, Anna University, *IEEE Conf.,* Aug.2018.
- **Panjavarnam. B**, P.T.V Bhuvaneswari, "Performance Analysis of SPIHT Algorithm for Biomedical Image Transmission," International Conference on Signal processing, Communications and Networking, MIT, Anna University, March 16-18, 2017. *IEEE Conf.,* Oct.2017.
- S. Yamini**Panjavarnam. B**, "Microstrip patch Antenna Integrated with EBG," Second

International Conference on Computing and Communication Technologies", Sri Sai Ram Engineering College, Feb 23&24 ,2017. *IEEE Conf.,* July.2017.

- **Panjavarnam B**, V Vijayyeshwanth, PTV Bhuvaneswari, "Maintaining the Quality of Video while Streaming using Long Term Evolution", 5th International Conference on Science and Innovative Engineering, India, May2015.
- Annie Philip, **Panjavarnam. B**, "Contactless Physiological Parameter Assessment System by Visual Propagation of Hemodynamic signal, Proceedings of NCIEEE'13 (ISBN: 978-81-924031-9-9), 21st & 22nd February2013.
- **Panjavarnam B**, J. Prashanth raj, A.Lakshmikanth, " Automatic segmentation of Ultrasound thyroid images using GVF and Watershed algorithm", 3rd National Conference on Signal Processing, Communications and VLSI Design(NCSC'11), AUT, Coimbatore, 6th &7th May2011.
- S.AdithyaSwaroop, H.Ajmal khan, **B.Panjavarnam**, "Image Processing and Nanotechnology in the diagnosis and medication of cancer", World Academy of Science, Engineering and Technology WASET), Singapore, September2011.
- S.AdithyaSwaroop, H.Ajmal khan, **Panjavarnam**. B, "Image Processing and Nanotechnology for Cancer Medication", 3rd National Conference on Signal Processing, Communications and VLSI Design (NCSC'11), AUT, Coimbatore, 6th &7th May2011.
- S.Shenbagadevi, **Panjavarnam** B "Medical Image Compression- an Approach with Embedded Zero Tree Wavelet Transform Coding" , National Conference on Advancement in Emerging Technologies, Meenakshi Sundarajan Engineering College, Chennai, India, January2008.

Professional Engagement

- Reviewer-International Journals
- Conference paper reviewer/ session chair

- Organized Special Session – Women in Science & Engineering (WISE) at IEEE International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE), 2020.
- Organised Special Session – Women in Healthcare Technologies (WITH) at IEEE International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE),2020.
- Organised Special Session - Advances of Artificial Intelligence and Data Science for Detection, Prevention and Treatment of COVID-19 Pandemic at IEEE International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE), 2020.
- Organised Special Session - Future Trend in Internet of Things (IoT 2020) at IEEE International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE),2020.
- PC Member for the IEEE International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE),2020.
- PC Member for the 2nd International Conference on Communication, Computing & Internet of Things (IC3IoT),2020.

Honors and Awards

1. ATAL best mentor award - 2022 ATAL
2. Women achiever award - 2022 MIT Square
3. Skill rack best mentor award - 2021 Sri Sai Ram Engineering college
4. Academic Excellence - 2021 Green Thinkerz- International Awards
5. Eminent Researcher award - 2020 I2OR-NAtional Awards
6. BEST TEACHER AWARD - 2006 Sri Sai Ram Engineering College