

Dr.RAMESH KUMAR PANNEERSELVAM



Designation : Associate Professor
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Contact at : Innovation Hub ::CSE
 Department of Computer Science and Engineering,
 Siddhartha Academy of Higher Education,
 Deemed to be Univeristy, Kanuru, Vijayawada,
 Andhra Pradesh 520007

Education

Ph. D (Computer Science and Engineering)

2018, Alagappa University (TamilNadu State University), Karaikudi

M.Tech (Computer Science and Engineering)

2007, Sathyabama Institute of Science & Technology, Chennai.

B.Tech (Computer Science and Engineering)

2004, Pondicherry University, Pondicherry.

Experience

Period	Designation	Institution / Organization	Key Responsibilities
2023-Till date	Associate Professor	Siddhartha Academy of Higher Education Deemed to be University	<ul style="list-style-type: none"> Executive Committee Member – SAHE Convener – University Sports Committee Member – AQAR - NAAC MoE Institute Innovation Council – Social Media Coordinator MoE Certified Innovation Ambassador. NSS – CSE Coordinator

2009 –2022	Sr. Assistant Professor	Velagapudi Ramakrishna Siddhartha Engineering College	<ul style="list-style-type: none"> • Innovation Hub - Professor In charge • Institute Innovation Council - IIC – Department Coordinator • EPICS –Professor In charge • Faculty / Students Extension Outreach • Member - Non Statutory Committees - Planning and Evaluation Committee • College News Letter/ House Journal/Annual Report – Member –CSE
2004-2008	Assistant Professor	Velagapudi Ramakrishna Siddhartha Engineering College	<ul style="list-style-type: none"> • NAAC / NBA – Criteria Member • UG / PG Project Coordinator/Review Member • Media Coordinator • Departmental News Letter Editor • Autonomous/Examination Section – Internal Observer • Literary & Cultural Coordinator – CSE

Research Interests

Broad Area of Research:

Edge AI, Edge Computing: On-board Processing, Tiny ML/DL, Ear Biometrics, Image and Video Processing, Computer Vision, IoT: Internet of Things

Honors and Awards

- National Innovation Mentor – MoE & AICTE
- Student Mentorship and Development Award, 2023 – Artificial Intelligence Medical & Engineering Researchers Society
- Best Paper Award, 2023 – IEEE International Conference on Data Science and Information Systems
- Best IIC Award, 2022 – MoE's Innovation Cell, IIC Regional Meet

Courses Taught

S.No	Course Name	Level (UG/PG)
1.	Programming for Games (AR/VR)	UG
2.	Python Programming	UG
3.	IoT: Internet of Things	UG
4.	AIoT: Advanced Internet of Things	PG
5.	IPR: Intellectual Property Rights	UG
6.	Digital Image Processing	UG
7.	Pattern Recognition	PG
8.	Microprocessor & Microcontroller	UG
9.	Operating Systems	UG
10.	Software Engineering	UG
11.	Object Oriented Analysis & Design	UG
12.	Computer Organization	UG
13.	Advanced Computer Architecture	PG
14.	IoT Lab	UG
15.	CASE Tools Lab	UG
16.	MP&MC Interfacing Lab	UG
17.	Python Programming Lab	UG

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.com/citations?hl=en&user=32BdF_QAAAAJ
Scopus	https://www.scopus.com/authid/detail.uri?authorId=23570008800
ORCID	https://orcid.org/0000-0003-3952-7072
dblp	https://dblp.uni-trier.de/pers/hd/s/Selvam:Ramesh_Kumar_Panneer
Publons	https://publons.com/researcher/1463654/ramesh-kumar-panneerselvam
Research Gate	https://www.researchgate.net/profile/Ramesh_Kumar_Panneerselvam
LinkedIn	https://www.linkedin.com/in/dr-rameshkumar-panneer-selvam-39b81635/

Recognized Research Supervisor

S.No.	Department	University
01.	Computer Science and Engineering	JNTUK University
01.	Computer Science and Engineering	Siddhartha Academy of Higher Education Deemed to be University

Funded Research Projects

S. No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
1.	Funded	Development of Edge Computing Framework for Multi-Object detection using Deep-learning Techniques.	On-going	ADRIN, ISRO	Rs.29 Lakhs	2023-25
2.	Funded	Geofence Livestock - Efficient Livestock Management through Geofencing Technology	On-going	MSME Govt. of India	15 Lakhs	2023-2025
3.	Funded	Mana Ration - Supply Chain Management Solutions	On-going	MSME Govt. of India	4.5 Lakhs	2022-2025
4.	Funded	Deep Multi Model 3d Object Detection And Semantic Segmentation For Autonomous Driving	Applied	ANRF GoI	Rs.79 Lakhs	2025
5.	Funded	Neuromorphic Edge AI for Intelligent Space Missions: A	Applied	ISRO Respond	Rs.29 Lakhs	2024

		Real-Time Deep Neural Network Framework for Autonomous On-Board Satellite Image Understanding and Integrated Object Recognition, Localization, Tracking, and Segmentation.				
6.	Funded	Aerator Automation and Monitoring System	Completed	Ihub , IIT Hyderabad	1.00 Lakhs	2023-2024
7.	Funded	Quality Detection and Grading of Shrimps	Completed	Ihub, IIT Hyderabad	1.00 Lakhs	2023-2024
8.	Funded	A Framework for Intelligent Health Emergency Vehicle Traffic Management System using Smart Sensors.	Applied	Ihub IIT Bombay	25	2023
9.	Seed Grant	Estimation analysis of Landslide occurrence by combing geological and atmospherically study using UNET model.	On-going	Siddhartha Academy of General & Technical Education	Rs.1.5 Lakhs	2022-23
10.		Challenges, Issues and Opportunities in the New Educational Policy-2020	Applied	ICSSR	30 lakhs	2022
11.	Funded	Robust Video Analytics	Completed	ADRIN – ISRO	18.23 Lakhs	2016-2018
12.	Seminar Grant	“Network Simulations Using OPNET & NS-2 Tools”	Completed	SERB - DST	50,000	2007

Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	Assistant Controller	VRSEC	2021-Present	Autonomous Section Management

Certifications/MOOC Courses Completed

Global & National Professional Certifications: 27

1. Certified in **Advanced Drone Innovation** by IIT Hyderabad
2. Certified **Innovation Ambassador** by MoE's Innovation Cell & AICTE, GOVT. of India.
3. Global certified Educator **Kotlin Android Google developer**
4. Global certified **Google Cloud Associate – Coach**
5. **CISCO: Connecting Things 2.01(IoT) Certified Instructor**
6. **CISCO** course on “Introduction to IoT – Internet of Things” for Netacad Instructor
7. **Microchip** Certified Instructor IoT-Internet of Things related course.
8. **Coursera-** Google Cloud Platform Fundamentals: Core Infrastructure
9. **Coursera-** Essential Google Cloud Infrastructure: Foundation
10. **Coursera-** Reliable Google Cloud Infrastructure: Design and Process
11. **Coursera-** Essential Google Cloud Infrastructure: Core Services
12. **Coursera-** Elastic Google Cloud Infrastructure: Scaling and Automation
13. SCS-India- Deep Learning using Python with Keras - Tensorflow.
14. **SCS-India-** Digital Image Processing using Python-OpenCV.
15. **Coursera:** AI for Everyone
16. **Coursera:** Computer Vision Basics
17. **Coursera:** Computer Vision – Image Basics with OpenCV and Python
18. **Coursera:** Computer Vision – Object Detection with OpenCV and Python
19. NPTEL course on “Introduction to IoT – Internet of Things “
20. **Automation Anywhere:** Hello A2019 Bot: Getting Started with
21. **Automation Anywhere:** Building Bots (A2019)
22. **UiPATH :** Introducing Robotic Process Automation (RPA)
23. **UiPATH :** Step into Robotic Process Automation during RPA Skillathon
24. **Automation Anywhere:** RPA
25. **Elsevier University:** How to secure funding - ECR edition
26. **Elsevier University:** How to prepare your manuscript
27. NPTEL course on “Outcome based Pedagogic Principles for Effective Teaching”

Patents

S.No	Title	Status	Application No.	Year
1	A Reader Device For Visually Impaired People	Filed	202441067134	2024
2	System And Method For Contactless Temperature Monitoring Using Smart Thermometer	Filed	202441046517	2024
3	Smart System for Driver performance Evaluation Using Machine Learning	Published	202141029006	2021

Ph.D

Guiding	01
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Invited Talks

No. of Invited Talks	15
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Professional Service / Reviewer

- Reviewer in IET Biometrics, IET UK
- Reviewer in IET Image Processing, IET UK
- Session Chair: ICDCS 2024 44th IEEE International Conference on Distributed Computing Jersey City, New Jersey, USA
- TPC member for the Third International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'17) (SIRS'18) <http://www.acn-conference.org/sirs2017/>
- TPC member for the ICCIDE-2018 International Conference on Computational Intelligence and Data Engineering, 2018. <http://www.iccide.co.in/>

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	25
International / National Level Seminars	15 /10
International / National Level Conferences	20 /05
Workshops	30
Instructor Led / Self-Paced Courses	27
Webinars	15

Professional Bodies Membership Details

1189084	Computer Society of India (CSI)
Member	Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI) - An affiliate of International Association for Pattern Recognition(IAPR)

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