FACULTY PROFILE

Name of the Faculty:	Dr. Sumanth Kumar Panguluri
Designation:	Assistant Professor
Department:	Electronics and Communication Engineering
Date of Birth:	23/07/1987

AICTE – ID:	1-9532788069

Education	• B.Tech in Electronics and Communication Engineering from Jawaharlal Nehru Technological University, Hyderabad in 2008. • M.Tech in Embedded Systems from Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur in 2011. • PhD in Digital Image Processing from Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur in 2023. [Title of Thesis: Development And Analysis Of Transform Based Low Light Infrared And Visible Image Fusion Algorithms Using Optimum Weighted Fusion Rules.]

Experience	Teaching: 7 Years 1 Months	Industry: ____Years	**Total: 10 Years 7 Months**
	Research: 4 Years	Others: ____Years	

Research Specialization	Digital Image Processing and Embedded Systems.

Courses taught	1. Digital Image Processing. 2. Microcontrollers and Micro Processors. 3. Digital signal Processing. 4. Signals and Systems. 5. Artificial Intelligence. 6. Embedded Systems. 7. Cellulular Mobile Communications. 8. Switching Theory and Logic Design. 9. Television Systems. 10. Digital Image and Video Processing. 11. Digital Logic Design. 12. Embedded Linux. 13. Problem Solving Using Programming.

Research contributions

International/national peer reviewed journals

S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/ SCOPUS, Google scholar)
1	Discrete wavelet transform based image fusion using unsharp masking	Periodica Polytechnica Electrical Engineering and Computer Science	2020	64(2)	211–220	SCOPUS
2	Efficient DWT based Fusion Algorithm for Improving Contrast and Edge Preservation	International Journal of Advanced Computer Science and Applications	2020	11(10)	123–131	ESCI
3	An effective fuzzy logic and particle swarm optimization based thermal and visible-light image fusion framework using curve-let transform	Optik	2021	243	167529	SCIE
4	A DWT Based Novel Multimodal Image Fusion Method	Traitement du Signal	2021	38(3)	607–617	SCIE
5	A novel fuzzy logic, gray wolf optimization and convolutional neural network based image fusion framework using discrete frame-let transform	Optik	2023	273	170485	SCIE

Books published

S. No.	Title of the book	Publisher	year
1	-	-	-

Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	-	-	-	-

Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	-	-	-	-

Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1	-	-	-

Details of Conferences/FDPs/STTPs/webinars/Workshops Participated

S.No.	Name of the event	Organized by	Dates
1	Faculty Improvement Program on Embedded Systems	Andhra Pradesh State Skill Development, Entrepreneurship and innovation, Government of Andhra Pradesh	29-11-2016 to 04-12-2016
2	Faculty Development Program on Pattern Recognition, Machine Learning and Computer Vision Applications using MATLAB with Hands on Training	Vignan's Foundation for Science, Technology and Research (Deemed to be University)	7-05-2018 to 11-05-2018
3	Faculty Development Program on Recent Trends in image and video processing	E & ICT Academy, NIT Warangal and VR Siddhartha engineering college	11-02-2019 and 16-02-2019
4	3rd National Conference on VLSI, Signal Processing and Communications	Vignan's Foundation for Science, Technology and Research (Deemed to be University)	6-09-2019 and 7-09-2019
5	Faculty Development Program on "AI and Deep Learning"	Vignan's Foundation for Science, Technology and	22-11-2019 to 27-11-2019

		Research (Deemed to be University)	
6	Winter School on Advances in Remote Sensing and its applications	IEEE and Vignan's Foundation for Science, Technology and Research (Deemed to be University)	18-12-2019 to 22-12-2019
7	IEEE 6th International conference on inventive computational technologies	RVS college of engineering and technology, coimbatore	20-01-2021 to 22-01-2021
8	2021 IEEE International conference on computer communication and informatics	Sri Shakthi institute of engineering and technology, coimbatore	27-01-2021 to 29-01-2021
9	IEEE International Conference on Integrated Circuits and Communication Systems	S.L.N College of Engineering, Raichur.	24-02-2023 and 25-02-2023
10	Faculty orientation program on C Programming	Bapatla Engineering College, Bapatla.	24-07-2023 to 28-07-2023

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	Acted as Reviewer for Expert systems and Applications Journal	Elsevier SCIE	Feb-2022
2	Acted as Reviewer for Measurement Journal	Elsevier SCIE	Feb-2023
3	Acted as Reviewer for Expert systems and Applications Journal	Elsevier SCIE	June-2023
4	Acted as Reviewer for Optical and Quantum Electronics Journal	Springer SCIE	July-2023
5	Acted as Reviewer for Multidimensional Systems and Signal Processing Journal	Springer SCIE	Aug-2023
6	Acted as Reviewer for Signal, Image and Video Processing Journal	Springer SCIE	Aug-2023

Details of project proposals submitted/sanctioned/completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration
1	-	-	-	-	-

Consultancy contribution

S.No.	Year	Amount	Details
1	-	-	-

Student Project/research guidance

S.No	Level	Total number	
1	UG	Completed: 16	Ongoing: - 1
2	PG	Completed: 1	Ongoing: -
3	PhD	Completed: -	Ongoing: -

Administrative experience

S.No.	Role	Duration (From – to)
1	-	-

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.co.in/citations?user=OoxOE8gAAAAJ&hl=en
SCOPUS	https://www.scopus.com/authid/detail.uri?authorId=57217078780
Web of Science	https://www.webofscience.com/wos/author/record/AAH-1675-2021
Vidwan ID	485034

Any other relevant information

(Sumanth Kumar Panguluri)

(13-02-2024)