Faculty Profile

Name of the Teaching Staff	Mr. Harish GS
Department	Artificial Intelligence and Data Science
E-mail	harish.gs@cittumkur.org
Present Designation	Assistant Professor
Google Scholar ID	https://scholar.google.co.uk/scholar?hl=en&as_sdt=0%2C5&q=author%3A%22Harish+G.+Siddalingaiah%22&btnG=
ORCID	https://orcid.org/0000-0001-8579-7423

Education Qualifications	1. UG in Instrumentation Technology @ SIT, Tumkur
	2. PGinSignal Processing - (ECE) @ SIT, Tumkur
	3. Ph. D in Electronics and Communication Engineering @ NIT, Goa – on going

Work Experience inYears

Teaching	9.2	From 16th Aug 2007 to 4th Sep 2008 at SIT, Tumakuru. From 9th Aug 2010 to 31st Jul 2018 at CIT, Gubbi. From 13th Jun 2024 till date
Research	5.8	Research Scholar NIT, Goa
Total	**14 Years 10 Months**	
Area of Specialization / Research	Biomedical Image Reconstruction, Optical Tomography, Optimization, Inverse problem	

PublicationDetails	1. Harish G. Siddalingaiah, Gurusiddappa R. Prashanth, Ravi Prasad K. Jagannath:"Comparative Study of Numerical Methods for Automatic Estimation of Regularization parameter for Diffuse Optical Tomographic image reconstruction", Jl of the Instrum. Soc. of India, P.49-55, Vol. 51, No. 1-4, December 2021. ISSN No. 0970-9983
	2. Harish G. Siddalingaiah, Ravi Prasad K. Jagannath & Gurusiddappa R. Prashanth: "Iterative Gauss-Seidel method improves image reconstruction in diffuse optical Tomography: A comparative study", AIP *Conference Proceedings*. Vol. 2875. No. 1. AIP Publishing, 2023. DOI: https://doi.org/10.1063/5.0154037
	3. Harish G. Siddalingaiah, Ravi Prasad K. Jagannath&Gurusiddappa R. Prashanth: "Gauss – Seidel based spatially varying optimal regularization improves reconstruction in diffuse optical tomography", The Imaging Science Journal: 1-18(2023). DOI: https://doi.org/10.1080/13682199.2023.2240601
	4. Harish G. Siddalingaiah, Ravi Prasad K. Jagannath & Gurusiddappa R. Prashanth: "Randomized recursive techniques for image reconstruction in diffuse optical tomography", *Eur. Phys. J. Plus*: **139**, 584 (2024). DOI: https://doi.org/10.1140/epjp/s13360-024-05394-7

	1. National Conference on Recent Advances in Electronics & amp; Communication (NCRAEC 2010), New Horizon College of Engineering, Bangalore, 21th may 2010. **Paper presented:** Harish. G. S, Srikantaswamy. R, Viswam. G, "High Volume Data Analysis using NVIDIA's CUDA on GPU", Proceedings of National Conference on Recent Advances in Electronics & amp; Communication (NCRAEC 2010), New Horizon College of Engineering, Bangalore, 21th may 2010.
	2. National conference on Recent Advances in Emerging Technologies & Applications (NC_RATETA-13) held on 29/04/2013 and 30/04/2013 organized by the Department of Computer Science, Ghousia College of Engineering, Ramanagaram. **Paper presented:** Divya S.S, Harish G.S, " Implementation of Slantlet Transform based Data Compression and Reconstruction Improved Technique applied to Power Quality Disturbance Signals" in national conference on Recent Advances in Emerging Technologies & Applications (NC_RATETA-13) held on 29/04/2013 and 30/04/2013 organized by the Department of Computer Science, Ghousia College of Engineering, Ramanagaram.
National and Inter National Conferences	3. IONS-India-2020, IIT Delhi 2020. **Poster Presented:** Harish G. Siddalingaiah, Gurusiddappa R. Prashanth, Ravi Prasad K. Jagannath: "Diffuse Optical Tomographic Image Reconstruction using efficient iterative schemes", IONS-India-2020, IIT Delhi 2020.
	4. CSMCS-2020, NIT-Calicut, 2020. **Paper presented:** Harish G. Siddalingaiah, Gurusiddappa R. Prashanth, Ravi Prasad K. Jagannath: Efficient Iterative schemes for Image Reconstruction in Diffuse Optical Tomographic Imaging, CSMCS-2020, NIT-Calicut, 2020.
	5. International Symposium on Instrumentation-3 being held from 7th October 2021 till 9th October 2021(ISOI 2021) at IISc, Bangalore. **Paper presented:** Harish G. Siddalingaiah, Gurusiddappa R. Prashanth, Ravi Prasad K. Jagannath:"Comparative Study of Numerical Methods for Automatic Estimation of Regularization parameter for Diffuse Optical Tomographic image reconstruction", Jl of the Instrum. Soc. of India, IISC, Bengaluru, P.49-55, Vol. 51, No. 1-4, December 2021. ISSN No. 0970-9983
	6. 2nd International Conference on Computational Sciences- Modelling, Computing and Soft Computing (CSMCS 2022), Organized by Department of Mathematics, Manipal Institute of Technology, Manipal, India on March 28-30, 2022. **Paper presented:** Harish G. Siddalingaiah, Gurusiddappa R. Prashanth, Ravi Prasad K. Jagannath, Iterative Gauss - Seidel method improves image reconstruction in diffuse optical Tomography: A comparative study. AIP Conference Proceedings 29 June 2023; 2875 (1): 030009. https://doi.org/10.1063/5.0154037

Workshops, Symposiums and FDP	1. Workshop on "8051 Microcontroller", conducted at SIT 28-01-2008 to 02-02-2008. 2. Workshop on "Computational Methods in Electrical Engineering", conducted at SIT on 1st Aug to 7th Aug 2008. 3. Technisium-07 organized by SIT, Tumakuru on 3rd March 2007. 4. Workshop on "Real Time DSP", organized by CIT, Gubbi& ITIE Knowledge Solutions at CIT on 28th to 30th Jan 2013. 5. FDP on "Real World DSP", organized by CIT, Gubbi& ITIE Knowledge Solutions at CIT on 15th – 27th July 2013. 6. Attended the workshop on "Signals & Systems", conducted by IIT, Kharagpur under MHRD at MIT manipal on 2nd to 12th Jan 2014. 7. In-house workshop on "Academic writing" organized at CIT, Gubbi on 12th July 2016. 8. FDP on "Research Methodology-As part of capacity building for faculty members and Ph.D scholars in Engineering and Management" organized by CIT, Gubbi& CMR University, Bengaluru on 19th& 20^{th}July2016 at CIT Gubbi. 9. FDP on " Open Source Technologies for DSP and Image Processing Applications" organized by CIT Gubbi & ITIE knowledge solutions, Bengaluru on 27th& 28th July 2016 at CIT, Gubbi. 10. Inter-Collegiate- Climate Change Quiz 2017, Organized by Divecha Centre for Climate Change, IISC, Bengaluru on 14th September 2017. 11. Participated Research Symposium on Bio-systems organized by IISC, Bengaluru on 24th& 25th of Jan 2019. 12. Participated and presented a poster in International OSA Network of Students Conference 2020 held during 29th Feb to 2nd Mat 2020 at IIT, Delhi. 13. Workshop on Medical Image computing on 24th& 25th Feb 2023 at IISC, Bengaluru.
Co-curricular Activities	1. Obtained NCC-'C' certificate in 2002. 2. Received Best cadet award in 4/4 COY NCC during 2002. 3. Participated in the Athletic meet secured first in 5000meter Running race held at SIT during 2006-07. 4. Participated in the Athletic meet secured first in 10000meter Running race held at SIT during 2006-07. 5. Participated in VTU Inter-Collegiate Cross-Country Race (Men & Women) 2009 held at Bahubali College of engineering, Shravanabelagola on 25th Feb 2009. 6. VTU Intercollegiate State Level Tennis Ball Staff Cricket Tournament – 2012 organized by HKBK College of Engineering, Bengaluru on 25-27th of Jan 2012.
Professional Memberships	1. Life Member of Indian Society of Technical Education. 2. Life Member of The Institution of Engineers (India).
Reviewer in Journal/Conference	Reviewer for Biomedical Signal processing & control journal(SCI)