

Faculty Profile

Name of the Teaching Staff	Dr. Harish GS		
Department	Information Science and Engineering		
E-mail	harish.gs@cittumkur.org		
Present Designation	Associate 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. PG in Signal Processing - (ECE) @SIT, Tumkur		
	3. Ph. D in Electronics and Communication Engineering @ NIT, Goa		
Work Experience in Years			
Teaching	10Y ,7M	From 16 th Aug 2007 to 4 th Sep 2008 at SIT, Tumakuru. From 9 th Aug 2010 to 31 st Jul 2018 at CIT, Gubbi. From 13 th Jun 2024 till date	
Research	5Y, 10M	Research Scholar NIT, Goa	
Total	16 years 5 months		
Area of Specialization / Research	Biomedical Image Reconstruction, Optical Tomography, Optimization, Inverse problem, Artificial intelligence, Machine Learning,		
Publication Details	1. H. G. Siddalingaiah, G. R. Prashanth, and R. P. K. Jagannath, “Differential evolution based cluster search method for image reconstruction in diffuse optical tomography,” Revised Manuscript Submitted for Publication.		
	2. H. G. Siddalingaiah, G. R. Prashanth, and R. P. K. Jagannath, “Interpretable deep network unveiled: Revolutionizing diffuse optical tomography for enhanced image reconstruction,” Submitted for publication.		
	3. H. G. Siddalingaiah, R. P. K. Jagannath, and G. R. Prashanth, “Advancing image reconstruction in diffuse optical tomography: An overview of regularization methods,” Sensing and Imaging, vol. 26, no. 58, 2025. doi: 10.1007/s11220-025-00574-w .		
	4. H. G. Siddalingaiah, G. R. Prashanth, and R. P. K. Jagannath, “Optimal image reconstruction and anomaly detection in diffuse optical tomography with hybrid cnn-lstm,” Multimedia Tools and Applications, pp. 1–23, 2024. doi: 10.1007/s11042-024-20232-9 .		
	5. H. G. Siddalingaiah, G. R. Prashanth, and R. P. K. Jagannath, “Randomized recursive techniques for image reconstruction in diffuse optical tomography,” The European Physical Journal Plus, vol. 139, no. 7, p. 584, 2024. doi: 10.1140/epjp/s13360-024-05394-7 .		
	6. H. G. Siddalingaiah, R. P. K. Jagannath, and G. R. Prashanth, “Gauss-seidel based spatially varying optimal regularization improves reconstruction in diffuse optical tomography,” The Imaging Science Journal, pp. 1–18, 2023. doi: 10.1080/13682199.2023.2240601		
	7. H. G. Siddalingaiah, G. R. Prashanth, and R. P. K. Jagannath, “Iterative gauss-seidel method improves image reconstruction in diffuse optical tomography: A comparative study,” AIP Conference Proceedings, vol. 2875, no. 1, p. 030 009, 2023. doi: 10.1063/5.0154037 .		

**National and Inter National
Conferences**

1. National Conference on Recent Advances in Electronics & 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 & 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.

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", JI of the Instrum. Soc. of India, IISC, Bengaluru, P.49-55, Vol. 51, No. 1-4, December 2021.

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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& 20th July 2016 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 Mar 2020 at IIT, Delhi.
13. Workshop on Medical Image computing on 24th& 25th Feb 2023 at IISC, Bengaluru.
14. Conducted a Workshop on Circuit Explorers: Transforming Classroom Concepts into Practice in Electronics on Date: 04-11-2024, for 1st year BE students at CIT Gubbi.
15. Participated in the International Conference on Applied AI and Scientific Machine Learning (CASML-2024) held at IISc, Bangalore, from December 16-18, 2024.
16. **Mentorship Fellowship:** Selected under the National Mentorship Initiative (INAE, Infosys Foundation, AICTE and IITs); received Rs. 50,000 fellowship for mentoring 28th May 2025 to 8th June 2025 at IIT Kanpur.
17. Participated in the National level online workshop on "Generative AI", organized by CIT Gubbi in association with BRAINOVISION SOLUTIONS (IND) PVT.LTD in collaboration with AICTE held from 4th Aug 2025 to 8th Aug 2025.
18. Participated in the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Responsible Generative AI and its Applications”, held at Jyothy Institute of Technology from September 8th to September 13th 2025.
19. **Conference Chair / Steering Committee Head:** Led and successfully organized the National Conference on AI in Medical Imaging: From Pixels to Prognosis at Channabasaveshwara Institute of Technology (4–8 November 2025), overseeing all academic, technical, and coordination activities.
20. **Invited Guest Speaker:** Delivered an expert talk on “Image

	Reconstruction Approaches in Optical Tomography” at the National Conference on AI in Medical Imaging: From Pixels to Prognosis at Channabasaveshwara Institute of Technology (4–8 November 2025). 21. Event Coordinator (IEEE SB Coordinator): VYUHANTHRA 2025 – State-Level Robotics Competition, CIT Gubbi (29 October 2025). Coordinated event planning and technical activities for the state-level robotics competition organized with IEEE SB and ISTE Karnataka Section. 22. Participated in the International Faculty Development Program “Research Monetization: Researcher-to-Founder Journey” on 14th February 2026 at CIT Gubbi.
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, Shravanbelagola 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) Reviewer for The European Physical Journal Plus(SCI) Reviewer for IJIRT – International Journal of Innovative Research in Technology Reviewer for Engineering, Technology & Applied Science Research