Name of Faculty	Dr. Sagar Gujjunoori	
Designation	Associate Professor	
Nature of Job/Appointment	Regular	
Date of Joining	23 - 07 - 2024	
E-mail	sagargujjunoori_it@cbit.ac.in	
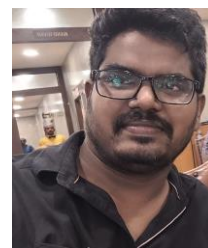
Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CSE)	Awarded
PG	M. Tech. (CSE)	First
UG	B. Tech(IT)	Second

Work Experience		
Teaching	10 Years	
Research	05 years	
Industry	--	
Others	--	
Area of Specialization	Image Processing, Computer Vision, Watermarking and Steganography, Image and Video Quality Assessment	
Professional Memberships	--	
Responsibilities held at Institution Level	1. EPICS – In-charge 2. R&D Team, Member 3. Time Tables- Chief In-charge	
Responsibilities held at Department Level	1. PRC Member 2. BoS, Member 3. Major Project Coordinator	
Research Guidance	--	
Awards Received	--	
Courses Handled at Under Graduate / Post Graduate Level.	• Digital Forensics • Computer Vision • Design and Analysis of Algorithms • Digital Image Processing • Language Processors • Theory of Computation • Data Structures and Algorithm Analysis • Problem Solving and Computer Programming	
No. of Papers Published	National Journals – 00 International Journals – 08 National Conference – 00 International Conference– 09	
Projects Carried out	1. **Principal Investigator:** Data embedding for digital video based on size, direction and speed of an object in motion, Funding Agency: Department of Science and Technology (DST), Government of India- Fast Track Young Scientist - Engineering Science Scheme (Cost of project: 36,38,000 INR, Duration: 3 years:1st Sep 2015 – 31st August 2018). 2. **As a Mentor:** Dynamic parallelization of pointer based sequential programme, Funding Agency: DST- Women scientist Scheme - A (WOS-A) (Cost of Project: 20,68,000 INR, Duration: 3 years: 1st Oct 2015 – 30th Sep 2018).	
Patents	--	
Technology Transfer	**--**	
Invited Speaker	**--**	
No. of Books/Chapter Published with	**--**	

details

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (**Attended and/or Organized**).	• Session Co-chair, International Conference on Artificial Intelligence Trends and Pattern Recognition, held during 10th -12th March, 2022. • Chair, Executive Committee, IEEE SS12 International Project Competition & Maker Fair 2017 • Convener, IEEE SS12 and Maker Fair 2017 (National level project competition) • Convener, Design thinking workshop 2016, held at Vardhaman College of Engineering, on 24th December, 2016. • Convener, Community Outreach Proposal Exhibit 2016, held at Vardhaman College of Engineering • Technical Program Committee member for 6th IEEE International Advance Computing Conference (IACC 2016) • Attended International IEEE Sponsored "EPICS in IEEE Workshop" in April 2015 at KCT Coimbatore • Participated in IUCEE-EPICS workshop held at MLRIT Hyderabad, during 6th - 9th July, 2016. • **Teaching Assistant** for the workshop "TWO WEEK ISTE WORKSHOP on Effective teaching/learning of Computer Programming" for the Faculty under the National Mission on Education through ICT, conducted by IIT Bombay, 28th June to 10th July, 2010 • **Participated** in the "Cloud Computing" workshop at UoH, Hyderabad, from 21-23, Dec 2009.

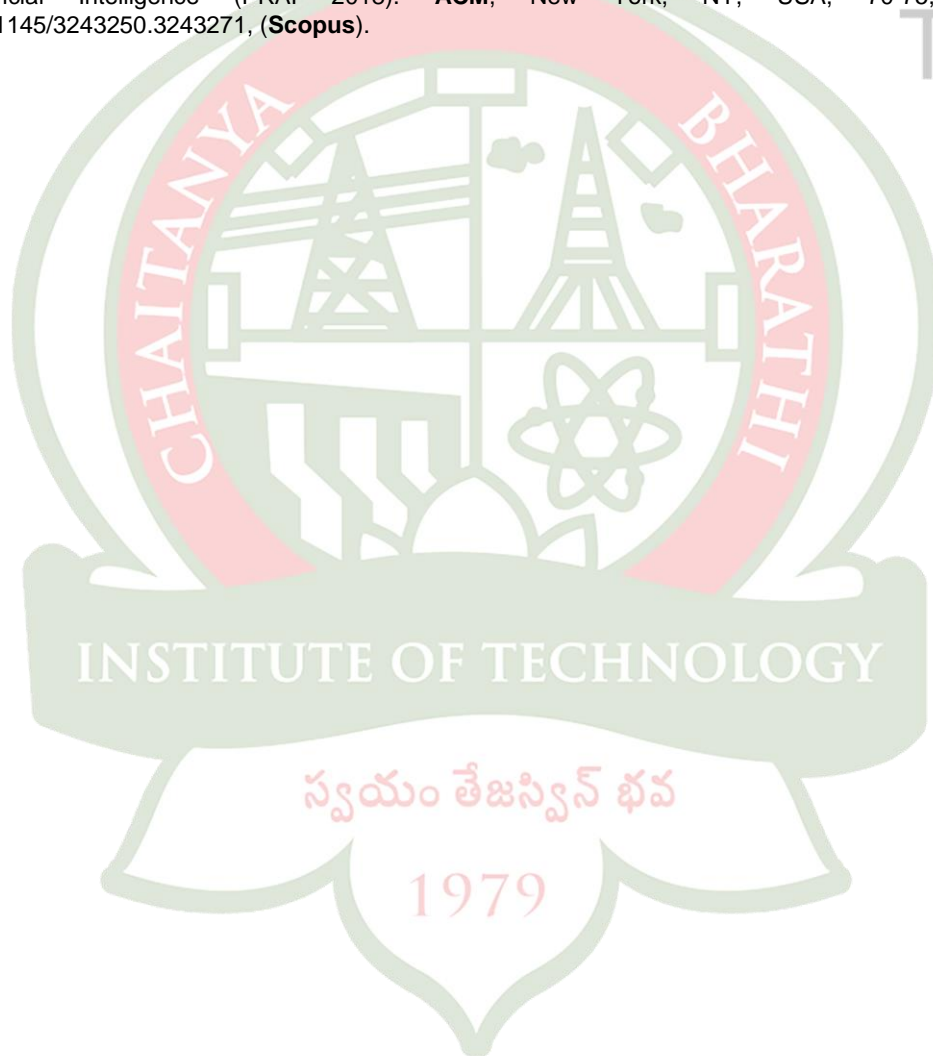Details of Journal Publications/ Conferences (**National and International**)

International Journal

1. S. Gujjunoori and B. B. Amberker, DCT based reversible data embedding for MPEG-4 video using HVS characteristics, Journal of Information Security and Applications, **Elsevier**, Volume 18, Issue 4, December 2013, Pages 157–166, DOI: 10.1016/j.istr.2013.01.002, ISSN: 2214-2126, **SCIE, Scopus, Most cited journal**.
2. Sagar Gujjunoori, Madhu Oruganti, Difference Expansion based Reversible data embedding and Edge detection, Multimedia Tools and Applications, 78, 25889–25917 (2019), DOI: 10.1007/s11042-019-07767-y, ISSN: 1573-7721, (**SCOPUS, SCIE**).
3. S. Gujjunoori and B. B. Amberker, Reversible Data Embedding for MPEG-4 Video Using Middle Frequency DCT Coefficients, Journal of Information Hiding and Multimedia Signal Processing, Vol. 5, No. 3, pp. 391-402, July 2014, ISSN 2073-4212, **SJR Impact Factor : 1.61, (Scopus)**.
2. Gujjunoori, S., Oruganti, M. & Pais, A.R. Enhanced optical flow-based full reference video quality assessment algorithm. Multimed Tools Appl 81, 39491–39505 (2022). https://doi.org/10.1007/s11042-022-12591-y (**SCIE)**
3. Parwat Singh Anjana, N. Naga Maruthi, Sagar Gujjunoori , Madhu Oruganti, Runtime Parallelization of Static and Dynamic Irregular Array of Array References, International Journal of Engineering & Technology, 2018 / 09 Vol. 7; Issue. 4.6, pp.150-157, DOI: 10.14419/ijet.v7i4.6.20452, ISSN: 2227-524X , (**Scopus**).
4. Sagar Gujjunoori; Madhu Oruganti, An optical flow direction-based full reference video quality assessment algorithm, International Journal of High Performance Computing and Networking, 2020 Vol.16 No.2/3, pp.148 – 159, DOI: 10.1504/IJHPCN.2020.112701, ISSN: 1740-0570 (**Inderscience**, ACM Digital Library, DBLP Computer Science Bibliography).
5. Rebecca Dhupppe, Sagar Gujjunoori, Gouthaman KV, Bharathi Ghosh, Reversible Enhancement of Reversibly Data Embedded Images using HVS Characteristics of DCT, International Journal of Image Processing (IJIP), Volume - 11 Issue - 3 , Pages - 94 - 105 , June 2017, ISSN - 1985-2304,. (Google scholar).
6. Sagar Gujjunoori, Madhu Oruganti, N. Aparna1, M. Srija and Chaitrali Dangare , Tracking and Size Estimation of Objects in Motion based on Median of Localized Thresholding, International Journal of Engineering & Technology, 7 (4.6) (2018) 78-81, DOI: 10.14419/ijet.v7i4.6.20241, ISSN: 2227-524X , (**Scopus**).

International Conferences

1. S. Gujjunoori, T. Ali Syed, M. Babu J, Avinash D, R. Mohandas and A. R. Pais, "Throttling DDoS Attacks" In Proceedings of SECRYPT 2009– International Conference on Security and Cryptography, Milan Italy; July 7-10, 2009, pp. 121-126, DOI:10.5220/0002229001210126, (**Scopus).**
2. S. Gujjunoori and B. B. Amberker, A DCT Based Reversible Data Embedding Scheme for MPEG-4 Video Using HVS Characteristics, The Eighth Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP2012), IIT Bombay, Dec 2012, ACM, Article 74, DOI: 10.1145/2425333.2425407, (**Scopus).**
3. S. Gujjunoori and B. B. Amberker, A DCT Based Reversible Data Hiding Scheme for MPEG-4 Video, International Conference on Signal, Image and Video Processing (ICSIVP2012), IIT Patna, Jan 13-15, 2012, pp. 254-259.

4. S. Gujjunoori and B. B. Amberker, A DCT Based Near Reversible Data Embedding Scheme for MPEG-4 Video, The 4th International Conference on Signal and Image Processing (ICSIP2012), Coimbatore, Dec 2012, pp. 69-79, DOI: 10.1007/978-81-322- 0997-3_7, (**Scopus)**.
5. S. Gujjunoori and B. B. Amberker, A Reversible Data Embedding Scheme for MPEG-4 Video Using HVS Characteristics, International Conference on Intelligent Systems and Signal Processing (ISSP2013), Gujarat, March 1-2, 2013, pp. 120-124, DOI:

10.1109/ISSP.2013.6526886, (**Scopus)**.
6. S. Gujjunoori and B. B. Amberker, BUSYEMBED: An HVS Based Reversible Data Embedding Scheme for Video Using DCT, 5th International Conference on Imaging for Crime Detection and Prevention, 16-17 Dec 2013, Kingston University London, UK, IET Digital Library, page 2.09, DOI: 10.1049/ic.2013.0277, (Scopus, IET).
7. S. Gujjunoori, S. Sai Satyanarayana Reddy, Gouthaman K V, Tracking and Size Estimation of Objects in Motion, International Conference on Machine Vision and Information Technology (CMVIT 2017), Singapore, Feb.17-19, 2017, Pages: 87-92, DOI: 10.1109/CMVIT.2017.8, **(Scopus, IET**)
8. S. Gujunoori and M. Oruganti, "Tracking and Size Estimation of Objects in Motion using Optical flow and K-means Clustering," 2017 2nd International Conference On Emerging Computation and Information Technologies (ICECIT)(**IEEE, Scopus)**, Tumakuru, 2017, pp. 1-6, DOI: 10.1109/ICECIT.2017.8456442.
7. Sagar Gujjunoori and Madhu Oruganti. HVS Based Full Reference Video Quality Assessment Based on Optical Flow. In Proceedings of the International Conference on Pattern Recognition and Artificial Intelligence (PRAI 2018). **ACM**, New York, NY, USA, 70-75, DOI: 10.1145/3243250.3243271, (**Scopus**).