

Sethu Institute of Technology


An Autonomous Institution

Pulloor, Kariapatti – 626 115, Virudhunagar



Department of Computer Science and Business Systems

Faculty Profile (Till January 2022)

NAME	Dr.R.Aghila			<i>Photo</i> 
UNIQUE ID	FD6031			
DESIGNATION	Professor and Head			
QUALIFICATION	B.E.,M.E.,Ph.D			
EMAIL ID	hodcsbs@sethu.ac.in			
ALTERNATE EMAIL ID	aghila@sethu.ac.in			
EXPERIENCE	INDUSTRY	TEACHING	TOTAL	
	1 yr 6 months	17 Years 5 Months	18 Years 11 Months	
DATE OF JOINING THE INSTITUTION	03.07.2019			
SPECIALIZATION AREAS	Distributed Computing, IoT, Mobile Computing			
NO.OF.PAPERS/BOOKS PUBLISHED	International/National Journal	22		
	Conferences	25		
GOOGLE SCHOLAR:	https://scholar.google.com/citations?hl=en&user=uApbI-wAAAAJ			
ACADEMIC IDENTITY	Orchid ID : https://orcid.org/0000-0002-8420-8209			
	CITATION	H INDEX	I-10 INDEX	
	46	4	2	

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Patent Publication:

1. Development of a Heartbeat and Temperature measuring system for remote health nursing during pandemic (COVID – 19), Application Number: 202041028557, The Patent office Journal No: 29/2020, dated 17/07/2020, Pg.no 119.
2. An approach for empowering edge computing for source allocation based learning for industrial IOT, Application Number: 202041023028A, The Patent office Journal No: 24/2020, dated 12/06/2020.

Details of Journal Publication

S.No	Details
1.	Optimal Routing Strategy Based on Extreme Learning Machine (ELM) with Beetle Antennae Swarm Algorithm for Low Earth Orbit (LEO) Satellite Communication Networks, International Journal of Satellite Communications and Networking, Vol 39 issue 3,issue 3,pages 237-317,May/June 2021. Impact Online ISSN: 1542-0981 Indexed in SCI, Web of Science, Elsevier SCOPUS. Impact factor of 1.652 https://doi.org/10.1002/sat.1391
2.	A Deep Learning Model Based on Multi-Objective Particle Swarm Optimization for Scene Classification in Unmanned Aerial Vehicles IEEE Access Vol 8 July 2020 E- ISSN: 2169-3536. Indexed in SCI, Web of Science, SCOPUS. Impact factor of 3.745 doi: 10.1109/ACCESS.2020.3011502
3.	Fine-tuned Residual Network-based Features with Latent Variable Support Vector Machine-based Optimal Scene Classification Model for Unmanned Aerial Vehicles, IEEE Access, Vol.8 June 2020 E-ISSN: 2169-3536. Indexed in SCI, Web of Science, SCOPUS. Impact factor of 3.745 DOI: 10.1109/ACCESS.2020.3004233
4.	Smart Surveillance Security Systems 4s for Detectio using SIFT and SURF In Image Processing, International Journal of Engineering and Advanced Technology (IJEAT). Volume-9 Issue-3, February 2020 ISSN: 2249-8958. Indexed in SCOPUS
5.	Efficient Distributed Web Crawler Using Hefty and Enhanced Bandwidth Algorithms for Drug Website Search, International Journal of Machine Learning and Networked Collaborative Engineering, Vol 4, No.1,2020. ISSN: 2581-3242 Indexed in Google Scholar
6.	An Obstacle Detection And Distance Sensing Algorithm For Visually Impaired Persons, International Journal of Scientific & Technology Research, Volume 8 - Issue 10, October 2019 Edition ISSN 2277-8616, Impact Factor: 3.023 Indexed in Elsevier Scopus.
7.	Identifying unauthorized users using ENS_ORA and DOZ in Ship, International Journal of Contemporary Research in Computer Science and Technology, March 2017. ISSN: 2395-5325 Indexed in Google Scholar.
8.	Diffusion of Information In Mobile Phone Networks For Viral Marketing, International Journal of Advanced Research Trends in Engineering and Technology IJARTET Volume-03 Special Issue-22, April 2016.

	ISSN:2394-3785 Indexed in Google Scholar, Thomson Reuters, Impact factor:4.753
9.	Information Retrieval using Dynamic Decision Quadtree in Soil Database Indian Journal of Science and Technology, Vol 9(10), March 2016. ISSN: 0974-6846 indexed in ISI, Thomson Reuters, and 22 H index.
10.	A Knowledge Representation Technique for Intelligent Storage and Efficient Retrieval using Knowledge based Markup Language, Indian Journal of Science and Technology, Vol 9(8), February 2016. ISSN: 0974-6846 indexed in ISI, Thomson Reuters, 22 H index.
11.	Scalable Face image Retrieval using Image Features, International journal on Recent & Innovative trend in Technology, vol 1, issue 04, Aug 2015. ISSN: 2454-1400 Indexed in Google Scholar
12.	Smart Recycling Garbage Management System, International Journal of Scientific Engineering and Applied Science (IJSEAS), July 2015. ISSN:2395-3470 Indexed in Google Scholar.
13.	Survey on Face Image Retrieval, International Journal of Scientific & Engineering Research, Volume 6, Issue 1, January-2015 pp 821-823. ISSN: 2229-5518, Impact Factor: 3.8 Indexed in Google Scholar.
14.	Identification of Malware Nodes in Heterogeneous Network Using EAACK, International Journal of Advanced and Innovative Research (2278-7844) / Volume 4 Issue 3 pg.437-440, 2015. ISSN: 2278-7844, Impact Factor: 0.349.
15.	Fault tolerance in mobile grid computing', International Journal of Electronic Commerce Studies, vol. 5, no. 1, pp. 115-122. ISSN: 2073-9729 indexed in SCOPUS
16.	MDP: A paradigm for communication and computation in mobile cluster, Journal of Theoretical and Applied Information Technology, vol. 61, no. 3. ISSN: 1817-3195 Indexed in SCOPUS.
17.	SODP: A new paradigm for mobile Grid, Australian Journal of Basic and Applied Science, vol. 8, no. 2, pp. 37-42. ISSN: 1991-8178, Impact Factor: 0.23.
18.	An analysis on checkpoint mechanism for grid computing, Australian Journal of Basic and Applied Science, vol. 8, no. 2, pp. 43-48. ISSN: 1991-8178, Impact Factor: 0.23.
19.	An optimized parallel computing paradigm for mobile grids based on DSPOM, Journal of Emerging Technologies in Web Intelligence, vol. 6, no. 1. ISSN: 1799-8859 indexed in Google Scholar
20.	Distributed pipes enforcement in mobile grid environment - A novel approach for task scheduling, International Journal of Future Computer and Communication, vol. 2, no. 4. ISSN: 2010-3751 Indexed in Google Scholar.
21.	Repfinder: An effective system for fault recovery in parallel processing of mobile grid computing, Proceedings of the International Conference NETs2012, Bangkok, Thailand
22.	A Formal Analysis and some properties of Kerberos in Network, Asian Journal for computer science and Technology (AJCST), vol:1No:1, Feb 2012. ISSN: 2249-5126 Indexed in Google Scholar.

National / International Conference Presentation

S.No	Details
1.	A study on deceptive attack and defense game in honey-pot- enabled networks for the internet of things in International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems at K.L.N. College of Information Technology March 2017.
2.	A study on secured electronic transactions using fingerprints in International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems at K.L.N. College of Information Technology March 2017.
3.	Big Data Protection, Integrity and Privacy, ISRO sponsored International Conference November 2016 at K.L.N. College of Information Technology.
4.	Student Result Analysis System, Third National Conference on Emerging Trends in Computing and Network Technologies March 2016.
5.	A Survey On Mobile Phone Networks, National Conference on Recent Trends in SMAC April 2016, Kamaraj College of Engineering and Technology, Virudhunagar.
6.	Dissemination Of Mobile Phone Networks, International Conference on Computing Information Electronics & Electrical Engineering ICCIEEE 2016 at Idhaya Engineering college for Women, Chinnasalem ,Villupuram Dist.
7.	Dynamic decision tree based information retrieval in soil database in 4th International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems at K.L.N. College of Information Technology on 27 th -28 th November 2015.
8.	Multiobjective evolutionary algorithm for mining positive and negative Association rules in fuzzy attributes using genetic algorithms in 4th International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems at K.L.N. College of Information Technology on 27 th -28 th November 2015.
9.	An Interactive Tool for Educating Rural women regarding urban amenities in One day National Conference on Women Empowerment at K.L.N. College of Information Technology on 08-09 March 2012.
10.	Fault Recovery Mechanism using RMS in Grid Environments in the 2 days National Conference a Sethu Institute of Technology on 20 th & 21 st Feb 2012.
11.	A Survey on Malware Detection Techniques in MANET in the Third International Conference conducted at K.L.N. College of Information Technology on 19 th December & 20 th December 2014.
12.	Survey on Face Image Retrieval in the Third International Conference conducted at K.L.N. College of Information Technology on 19 th December & 20 th December 2014.
13.	Survey on Gene Analysis by Grid Computing in National Conference on at Jayaram College of Engineering and Technology from 23 rd August to 25 th August 2012.
14.	Gene Analysis using Grid Computing in 2012 IEEE International Conference on Advanced Communication, Control and Computing Technologies at Syed Ammal Engineering College,

	Ramanathapuram from 23 rd August to 25 th August 2012.
15.	Performance/Qos/Fault Tolerance Recovery Mutual Scheduling: A Flexible Approach for Fault recovery Mechanism in the grid Environments in the Third International Conference at Vellore Institute of Technology Vellore from 19 th January to 21 st January 2012.
16.	Task Scheduling in Grid in the National Conference conducted at Mohammed Sathak Engineering & Technology.
17.	Hierarchical Task Scheduling in Grid in the National Conference conducted at Joe Suresh Engineering College on 23 rd March 2011.
18.	Particle Swarm Optimization Algorithm in grid computing in the International Conference at Vellammal College of Engineering & Technology, Madurai on 22 nd July to 23 rd July 2010.
19.	Routing Protocols for Mobile grid in the National Conference conducted at Sethu Institute of Technology on 3 rd & 4 th April 2009.
20.	Behavioural Biometrics in the National Conference on Recent Approaches in Communication & Information Technology at Madha Engineering College on 21 st March 2009.
21.	Lossy image compression using Burrows Wheeler Transform and Huffman Coding for color images in the National Conference conducted at St.Peter's College of Engineering, Chennai from 15 th to 17 th February 2007.
22.	Recognition of Ear based on RBF Neural Network in the National Conference conducted at J.J. College of Engineering, Trichy from 1 st March to 2 nd March 2007.
23.	Ear Biometrics in the National Conference NCACT -2006 conducted at Jayaram College of Engineering & Technology, Trichy from 20 th September to 22 nd September 2006.
24.	High Speed Face Recognition Using DCT and RBF Based Neural Network in the National Conference at Kamaraj College of Engineering & Technology from 23 rd March to 24 th March 2006.

Reviewer:

S.No	Details
1.	Journal of Institute of Scholar (InSc)
2.	Journal of Intelligent & Fuzzy Systems, (JIFS), 2021 Anna University Annexure Journal
3.	Reviewer in Research Script International Journals. Reviewer ID:RV15CS50079.
4.	Reviewer in Research Script IJM TES group of Journals (IJRE JREE JRC S J RME IJM H IJM TES). Reviewer ID: RVI15CS81034.
5.	Reviewer for International Conference on Big Data and Cloud Computing in the year 2017 and 2018, Conducted by Karunya University
6.	Editorial Board of International Journal of Computer Science and Engineering Survey (IJCSES)
7.	Journal Reviewer for the International Journal of Computer Networks and Applications (IJCNA)
8.	Journal Reviewer for the International Conference on Internet Studies, August 17-19, 2012, Bangkok, Thailand.

Guest Lecture Delivered:

S.No	Details
1.	Delivered a lecture on “Distributed System” at K.L.N. College of Engineering in 2019.
2.	Delivered a Guest Lecture on “IoT and Society” in AICTE Sponsored Faculty Development Programme on “IoT Issues and Challenges” on 15 th November 2017 at M.A.M. College of Engineering Trichy.
3.	Delivered a lecture and reviewed the mini project on 26 th & 27 th September 2017 at University College of Engineering, Panruti.
4.	Delivered a Guest Lecture in Anna University Approved Faculty Development Program “Theory of Computation” on 06.06.16 and 07.06.16 at K.L.N. College of Information Technology.
5.	Delivered a Guest Lecture on “Recent Researches in Grid Computing” on 21.12.15 at University College of Engineering, Panruti.
6.	Delivered a Guest Lecture in Anna University Sponsored Faculty Development Program “Operating System” on 29.11.06 at K.L.N. College of Information Technology.

Professional Society Membership

S.No	Details
1.	Institute of Scholars (InSc)
2.	Computer Society of India (CSI), Member Number: N1120413
3.	International Association of Engineers (IAENG), Member Number: 156207
4.	Senior Member of International Economics Development Research Center (IEDRC) Member Number: 30080326
5.	International Association of Computer Science and Information Technology (IACSIT), Member Number: 80350898