


Name	Dr.S.JAYACHITRA			
Department	ECE			
Qualification	B.E., M.E., Ph.D.,			
Area of Specialization	Wireless Communication			
Date of Joining (KSR IET)	01-06-2021			
Experience (as on 01.03.2023)	Teaching: 15.5 Years	Industry:-	Others: -	
Number of Papers Published	National Journals : - International Journals : 10			
Number of Papers Presented	National Conferences : 4 International Conferences : 7			
Number of Patents	Filed 3 patent			
Books Published	National Publisher : - International publisher : -			
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PUBLICATIONS 10

International Journals: 10

- (1) 'A Novel Method for Small Delay Defect Detection Using Glitch Detector'- in IJAICT Journal Volume1, Issue2, June 2014.
- (2) 'MTCMOS Design for Effective Voltage Drop Control'- in IJAICT Journal Volume1, Issue2, June 2014.
- (3) 'An Energy Conserved Route Discovery Using node Partitioned Cluster Routing in Manet' - in Anna University Annexure2 journal named **Australian Journal of Basic and Applied Sciences**, 9(10) Special 2015, Pages: 326-334 IS.
- (4) 'Energy – efficient Polynomial Time Resource Channelized Framework for DataCommunication in MANET', Asian Journal of Information Technology, Medwell Journals, vol. 15, no. 12, pp. 1987-1995.2016.
- (5) 'Secured QoS Routing and Data Communication in Mobile Ad Hoc Network', Asian Research Consortium, Asian Journal of Research in Social Sciences and Humanities, vol. 6, no. 8, pp. 267-281.2016.

- (6) **'A Study on Algorithm for Compression and Decompression of Embedded Codes using Xilinx'**, Indo-Iranian Journal of Scientific Research (IIJSR), (Peer Reviewed Quarterly International Journal) Volume 2, Issue 4, Pages 31-36, Oct-Dec 2018.
- (7) **"An Enhanced Method Of Secured Energy - Efficient Data Communication in Manet For Emergency Rescue Operation"**, International Journal of Engineering and Advanced Technology (IJEAT)- ISSN: 2249 – 8958, Volume-9, Issue-1S2, December 2019.
- (8) **'Automatic Ration Distribution System Using IoT with Anti theft and Anti-spill alarm International Journal of Engineering Research and Applications-** ISSN: 2248-9622, May-2020.
- (9) **'Task Scheduling In Cloud Computing Using Ica And Crow Search Algorithms , Bioscience Biotechnology Research Communications Special Issue** Volume 13 Number (6) 2020, ISSN: 0974-6455, Dec-2020.
- (10) Published a Paper Titled **IOT Based Coal Mine Workers Safety Monitoring And Alerting System** in the year 2022 International Journal of Intellectual Advancements and Research in Engineering Computations Volume 10 ISSUE 2, ISSN :2348-2079.

International Conferences: 7

- 1 **An Energy Efficient Communication Scheme for Mobile Ad-hoc Networks**, International Conference, 1st and 2nd April 2010, Vivekanandha College of Engineering for Women.
- 2 **A Successful Progress For Hierarchical Routing Proposal form in Wireless Ad-Hoc Network Through Polychromatic Sets**, International Conference on Emerging Technology (ICET-2014) held at 2nd March 2014, Paavai Engineering College.
- 3 **Attended International conference on Emerging Technology and Presented Paper Titled ENHANCED ICTCP TO AVOID CONGESTION CONTROL IN WSN at Paavai Engineering College .**
- 4 **Driver stress detection using inertial motion and EEG sensor in International Conference on Applied Sciences Engineering and Technology** held at Sengunthar College of Engineering.
- 5 **Monitoring of Bone Setting During Rehabilitation Using Flex Sensors in International Conference on Applied Sciences Engineering and Technology** held at Sengunthar College of Engineering.
- 6 **"An Enhanced Method Of Secured Energy - Efficient Data Communication in MANET For Emergency Rescue Operation"**, in International Conference on Latest Trends in Science, Engineering and Technology at Karpagam Engineering college Coimbatore.
- 7 Presented a paper titled **Smart Crop Protection System for agriculture against animals and Environmental Impacts using IoT**, in International conference on Innovation towards Sustainable Development goals conducted by Sathyabama TBI and Enthutech solutions on 09.04.2023.

National Conferences: 4

- (1) **An Efficient advance for Hierarchical Routing Scheme in Wireless Ad-Hoc Network Through Polychromatic Sets in National Conference on Wireless Communication** held at Vivekananda College of Engineering For Women.

- (2) Attended RRRLF Sponsored National Conference on Transformation of Learning Resource Centres in DIGITAL Era. Conducted by K S R CT-LIBRARY&SALIS on 13.10.2022
- (3) Presented a paper in AICTE Sponsored **National Conference** on Internet of Things, Artificial Intelligence and 3D Printing during 21st and 22nd February 2020, Titled **Artificial Intelligence in sentimental analysis**.
- (4) Presented a paper in AICTE Sponsored **National Conference** on Internet of Things, Artificial Intelligence and 3D Printing during 21st and 22nd February 2020, Titled **Innovative Smartcart for user friendly purchase in shopping malls**

PATENTS APPLIED&PUBLISHED

S.No	Title of the Invention	Application Number	Publication Date
1	Trackbot A Quick Witted Robot For Detecting Cracks And Missing Key In Railway Tracks With Unmanned Safeguard Gates .	202041016879A	05.06.2020
2	Prediction Of Malicious Communication In Vehicular Adhoc Network Using Artificial Intelligence Technique	No.202231065594 A	18/11/2022
3	An Artificial Intelligence Based System to Assist the Commute for Visually Challenged	No.202241052116 A	23/09/2022

SPONSORED PROGRAMMES /OTHER PROGRAMMES ORGANISED

S.No	Title of the Programme	Funding Agency	Amount	Role and Academic year
1	FDTP on Signals and Systems”	Anna University	Rs 40,000	Coordinator 2019-2020
2	Online Short Term Training Programme (STTP) on Series- I & II on “Cognitive Radio Wireless Sensor Networks: Applications, Challenges and Research Trends”	AICTE	Rs 1, 96,000	Coordinator 2020- 2021
	OTHERS			
3	One day Awareness Program on Women Safety, Security ,and Rights	WOMEN EMPOWERMENT CELL	-	Coordinator 2019-2020
4	One day Cancer Awareness Program for Female Students	WOMEN EMPOWERMENT	-	Coordinator 2019-2020

	and Faculties	CELL		
5	One day Guest lecture on “Importance of Electromagnetic Interference and Electromagnetic Compatibility and its Effect On Humanity”	-	-	Coordinator 2019-2020
6	3 days online webinar on Recent Trends in Signal Processing- Research Perspective	online	-	Coordinator 2020- 2021

PROJECT CONTESTS GUIDED

S.No	Contest Name	Title of the project	Industry name	Year
1.	Student Project Scheme	Piezo Electric Harvesting – A Sustainable Approach To Clean Energy Generation In Airport Terminals	Tamil Nadu State Council for Science and Technology	2018
2.	Student Project Scheme	Power generation through wheeling and Mini fan.	Tamil Nadu State Council for Science and Technology	2019

AWARDS RECEIVED

- Awarded and recognized for Resource person from Ramachandra Engineering College, Eluru Andhra Pradesh for AICTE sponsored FDP on “Research Challenges in Optical Networks, WDM Optical Networks, Sensor Networks and Unparalleled Communication Speed in the Future: A Scalable Approach” during the academic year 2019-20.
- Awarded and recognized for Resource person from Velalar college of Engineering for the Guest Lecture on Nanotechnology applications in Medicine during the academic year 2020-21.
- Received NPTEL Certificate of appreciation for **Active SPOC –SWAYAM NPTEL Local chapter of KSR IET** during the academic year 2022-23.

FUNDING PROPOSALS SUBMITTED 17

UG & PG PROJECTS GUIDED 20

GUEST LECTURES DELIVERED 02

PROGRAMMES PARTICIPATED	42
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PROGRAMMES ORGANIZED	06
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PROFESSIONAL MEMBERSHIPS

- ❖ LIFE MEMBER of ISTE

ADDITIONAL PROFESSIONAL RESPONSIBILITIES HELD

- ❖ Co-Ordinator for various committee in College functions
- ❖ Finance Co-Ordinator
- ❖ Lab incharge, Academic Co-Ordinator
- ❖ Time table Co-Ordinator
- ❖ Class counselor etc.
- ❖ Acted as Reviewer for the International Conference.
- ❖ Seminar Proposal In charge.
- ❖ Department R&D Coordinator
- ❖ NPTEL Local Chapter SPOC.