


FACULTY PROFILE		
Staff Name	:	Dr. D. Sumithra Sofia
Faculty ID	:	TEC61
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Image		
Publone ID		https://www.webofscience.com/wos/op/publications/import-publications
Scopus ID		https://id.elsevier.com/settings/redirect?code=j49tX0jD_NJuQO3dcCVwnRWLhODOTdJx8Ad5dxyA
ORCID ID		https://orcid.org/my-orcid?orcid=0000-0002-1979-5478
Google Scholar ID		https://scholar.google.com/citations?user=sJFBW-oAAAAJ&hl=en
LinkedIn ID		https://www.linkedin.com/in/dr-sumithra-sofia-d-b3746182/?originalSubdomain=in
Designation		Assistant Professor
Qualification	:	M.E., Ph.D.
Teaching Experience	:	3 years
Area of Specialization	:	Wireless Communication, Mobile Adhoc Networks, Cognitive Radio Networks
Subjects Handled	:	Digital Principles and Computer Organization Neural Networks and Deep Learning Mobile Adhoc Networks Wireless Communication Cognitive Radio Networks
Books Published	:	-
Journals Published	:	<ol style="list-style-type: none"> 1. Sumithra Sofia. D, Shirley Edward. A, "Performance Comparison between different optimization techniques in Cognitive Radio for Spectrum Allocation", Wireless Personal Communications Vol.125, pp.143–157, Springer, https://doi.org/10.1007/s11277-022-09545-w, 2. Sumithra Sofia. D, Shirley Edward. A, "Auction based Game Theory in Cognitive Radio Networks for Dynamic Spectrum Allocation", Computers and Electrical Engineering, Vol.86, pp.883-907, Elsevier, https://doi.org/10.1016/j.compeleceng.2020.106734 3. Sumithra Sofia. D, Shirley Edward. A "Overlay Dynamic Spectrum Sharing in

	<p>Cognitive Radio for 4G and 5G using FBMC", Materials Today Proceedings, ISSN 2214-7853, Elsevier, https://doi.org/10.1016/J.MATPR.2021.07</p> <p>4. Sumithra Sofia. D, Shirly Edward. A "Interweave Dynamic Spectrum Sharing for Cognitive Adhoc Networks using Genetic Optimization Algorithm", IEEE 4th International Conference on Computing, Power and Communication Technologies, pp.1-6 http://dx.doi.org/10.1109/GUCON50781.2021.9573765</p> <p>5. Sumithra Sofia. D, Shirly Edward. A "Distributed Auction Mechanism for Dynamic Spectrum Allocation in Cognitive Radio Networks", International Conference on Innovative Data Communication Technologies and Application (LNDECT), Vol.46, pp.172-180, Springer, https://link.springer.com/chapter/10.1007/978-3-030-38040-3_20</p>
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Conference /Workshop Attended	: <ol style="list-style-type: none"> 1. Sumithra Sofia. D, Shirly Edward. A "Survey on Dynamic Spectrum sharing in Cognitive Radio Networks for 4G and 5G" ICREACT 2021, SRM Institute of Science and Technology, Dept of ECE May (3-4) 2021. 2. Sumithra Sofia. D, Shirly Edward. A, SRMIST" Dynamic Spectrum Allocation for Cognitive Adhoc Networks using Genetic Optimization Algorithm "(ICEPHAST- International Conference on Electronics, Photonics, and Smart Technologies 2020) Dept of ECE, November 16 -18, 2020. 3. Sumithra Sofia. D, Shirly Edward. A "Distributed Auction Mechanism for Dynamic Spectrum Allocation in Cognitive Radio Networks", ICIDCA 2019, RVS College of Engineering and Technology, October 17-18, 2019 at Coimbatore, India. Published in Springer Lecture Notes in Data Engineering And communication Technologies in chapter [978-3-030-38039-7, ICIDCA 2019, LNDECT 46, schedule for paper approval (479594_1_En, Chapter 20)]. 4. Sumithra Sofia. D, Shirly Edward. A, "Distributed Interference Based Spectrum Allocation in Cognitive Radio Networks", REACT 2020, Web conference in ECE techniques, SRM Institute of science and Technology, Vadapalani. 5. Sumithra Sofia. D "Robotics and Types of Robots", from Rajalakshmi college. Sumithra Sofia. D "Color Texture Segmentation in Deformable Surface Model" from Karunya University.
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Patent Details	:	Total Number of Patents (IPR) Published : 03			
		S.No	PatentTitle	Name of Applicant(s)	Status
		1	AI-Based Signal Processing for Efficient Wireless Communication in Industrial IoT Systems	1 . Dr. S. J. Patil (Paraj) 2 . Dr. Venkata Satya Sairam Metta 3 . Dr. A. Sathishkumar 4 . Mr. A. Mathankumar 5 . Dr. D. Sumithra Sofia 6 . B Priyalakshmi 7 . Dr. P. K. Chidambaram	Published
		2	Dynamic Resource Allocation System for Optimized Supply Chain Management in Global Markets	1 . Dr. Mihir Kumar Shome 2 . Dr.J.Ramya 3 . Dr. Balasaheb Naryanrao Shivale 4 . Dr. Omkar Vishwas Gadre 5 . Mr. Dada Shamrao Patil 6 . Mrs. Chhaya Rahul Vanjare 7 . Dr.D. Sumithra Sofia 8 . Dr. Rajiniginirath	Published
		3	Nano Antennas for wireless energy transfer and communication	Dr. D. Sumithra Sofia, Dr. Tejaswini C, Dr. Sendamarai P, Mrs. A. Sujath,A. Priyadharshini, Mr. K. Santhosh Kumar, Mr. T. Arunkumar, Mrs .U. Sivaranjani,	Published
Funded Project Details		-			
Consultancy		-			
Reviewer		Wireless Personnel communications			
Editor		-			