| FACULTY PROFILE FORMAT (Format 3) | | | |
|-----------------------------------|---|--|--|
| Staff Name | : | Dr. Sumithra Sofia.D | |
| Faculty ID | : | TEC61 | |
| 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 | |
| nandied | | 2. Neural Networks and Deep Learning | |
| | | 3. Mobile Adhoc Networks | |
| | | 4. Wireless Communication | |
| | | 5. Cognitive Radio Networks | |
| Books Published | : | - | |
| Journals Published | | 1. Sumithra Sofia. D, Shirly 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, Shirly 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, Shirly Edward. A "Overlay Dynamic Spectrum Sharing in Cognitive Radio for 4G and 5G using FBMC", Materials Today Proceedings, ISSN 2214-7853, Elsevier, https://doi.org/10.1016/J.MATPR.2021.07 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 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 |
|-------------------------------------|---|--|
| Conference /Workshop Attended | : | 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. |
| | | 6. Sumithra Sofia. D "Color Texture Segmentation in Deformable Surface Model" from Karunya University. |
| Patent Details | : | - |
| Funded Project Details | | - |