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| **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** | : | 1. Digital Principles and Computer Organization 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** |  | - |