



## Department of Artificial Intelligence and Datascience

### FACULTY DETAILS

<b>Staff Name:</b>	Dr. S.TEPHILLAH
<b>Designation:</b>	Associate Professor
<b>Date of Birth:</b>	19/09/1981
<b>Educational Qualification:</b>	M.E., Ph.D
<b>Area of Interest:</b>	Cognitive Radio Networks , Wireless Communication , Wireless Networks
<b>Years of Experience:</b>	17 Years and 4 Months
<b>Area of Research:</b>	Security issues in Cognitive Radio Networks
<b>No. of Students Project Guided</b>	58 UG projects and 4 PG Projects
<b>Supervisor</b>	--
<b>FDP &amp; Workshop Funding</b>	<ol style="list-style-type: none"><li>ICMR Sponsored Workshop on “ Engineering in Diabetology” , with a fund of Rs.50,000/- ,conducted from 12.6.2018 to 15.06. 2018.</li><li>BRNS Sponsored Workshop on “ Biological Effects of Electromagnetic Fields and Radiation” with the fund of Rs.40,000/- conducted from 12.12.2019 to 14.12.2019.</li><li>AICTE -ATAL Sponsored FDP on “ Sensor and its application in Navigation Systems in Marine and Defense Environment” with a fund of Rs.93,000/- from 17/08/2020 to 21/8/2020.</li><li>AICTE -ATAL Sponsored FDP on “ Recent Trends in VLSI with Machine Learning Algorithms” with a fund of Rs.3.5 Lakhs conducted from 11.12.23 to 16.12.23.</li></ol>
<b>Research Projects (Granted)</b>	Nil
<b>R &amp; D Activities</b>	Nil
<b>Consultancy</b>	<ul style="list-style-type: none"><li>Internet of Things for Medical &amp; Smart City Application and Autonomous Vehicle - Pantech eLearning Pvt Ltd, Project Value: Rs.2,78880 Consultancy Value Rs.27,880.</li></ul>

## **Publications Details:**

### **Journal Publications:**

- S. Tephillah, J. Martin Leo Manickam, "An SETM Algorithm for Combating SSDF Attack in Cognitive Radio Networks", Wireless Communications and Mobile Computing, vol. 2020, Article ID 9047809, 9 pages, 2020. <https://doi.org/10.1155/2020/9047809>
- Munivel, Karthikeyan Venkatesan, Tephillah Samraj, Vijayakumar Kandasamy, and Naveen Chilamkurti. 2020. "Improving the Lifetime of an Out-Patient Implanted Medical Device Using a Novel Flower Pollination-Based Optimization Algorithm in WBAN Systems" Mathematics 8, No.12: 2189. <https://doi.org/10.3390/math8122189>.
- Munivel, Karthikeyan Venkatesan and Samraj, Tephillah. "Raspberry Pi implemented with MATLAB simulation and communication of physiological signal-based fast chaff point (RPSC) generation algorithm for WBAN systems" Biomedical Engineering / Biomedizinische Technik, vol.66, no.2, 2021, pp 209-224. <https://doi.org/10.1515/bmt-2019-0336>
- S. Tephillah, J. Martin Leo Manickam, "Identification Of Malicious User To Combat SSDF Using Trust Based Machine Learning Techniques In Cognitive Radio Networks", International Journal of future Generation Communication and Networking, 2021, vol. 14, issue no.1, 426-434.
- S. Tephillah, J. Martin Leo Manickam , "A layer based survey on the security issues of cognitive radio networks", Special Issue, International Journal of Computer Science and Information Security, 2016, Vol.14, PP 34-42.
- S. Tephillah , P.S Dinesh, S. Dinesh and A.M. Balamurugan , "Primary User emulation Attack (PUEA) Analysis in Cognitive Network", International Journal of Emerging Trends & Technology in Computer Science, 2017, Vol. 6, Issue 2, pp 67-71, ISSN 2278-6856.
- Steffi J, Priyanka A, Tephillah S, Balamurugan AM. Attacks and countermeasures in WSN. International Journal of Electronics & Communication, 2014, Vol.2, Issue 1.

### **Conference:**

- J. S. A. Priyanka, S. Tephillah and A. M. Balamurugan, "Malicious node detection using minimal event cycle computation method in wireless sensor networks," 2014 International Conference on Communication and Signal Processing, Melmaruvathur, India, 2014, pp. 905-909, doi: 10.1109/ICCSP.2014.6949975.
- S.Tephillah, V.Shruthi, "Transfer learning for infectious fruits and vitamins detection", Emerging trends in science technology and applications (ICETSTA 2022).
- Monish Kumar N J, Naveen Kumar M, Tephillah S, "Modern Day Smart home with E-Billing", 10<sup>th</sup> International Conference on contemporary Engineering and Technology, 2022.
- Arvind Vaidhya G, Tephillah S, "En-Route Drone for Medicine Delivery & other Emergency Purposes", International Conference on Recent Trends in Engineering Technology and Management, Coimbatore Institute of Engineering and Technology, Coimbatore, 3/2019.

	<ul style="list-style-type: none"> <li>Keerthi kumaran, Manish, Tephillah S, "Establishing Secured Communication in Cognitive Radio Networks", 8th International Conference on Science and Innovative Engineering, Jawahar Engineering College, Chennai.</li> <li>J. Jeba Johannah and S. Tephillah, "Intelligent Farmhouse Attendance Monitoring System Using Deep Learning," 2023 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India 2023,pp. 1-7, doi: 10.1109/ACCAI58221.2023.10200346.</li> </ul> <p><b>Book Chapters</b></p> <ul style="list-style-type: none"> <li>S.Tephillah, C Gnana Kousalya, G Rohini, J Bino, K Immanuel, A Dinesh Kumar, " Robotic Process Automation in the Medical Sector", Application and Adoption of Robotic Process Automation for Smart Cities by IGI Global , 2023.</li> <li>S.Tephillah, M.V.Karthikeyan,M.Senthil Murugan, T.Siva. D.Suresh, Murali T, "A Combined Survey on machine learning for cognitive radio deployed on secure WBAN environments", Metaverse Applications for intelligent Healthcare by IGI global, 2023.</li> </ul>
<p><b>FDP &amp; Workshop Attended Details:</b></p>	<ul style="list-style-type: none"> <li>5 Days FDP on "CO PO Mapping &amp; CO PO Attainment" by Greater Kolkata College of Engineering and Management, West Bengal, from 10-07-23 to 14-07-23.</li> <li>6 Days FDP on " Emerging Technology in Artificial Intelligence" by Jeppiaar Institute of Technology, from 19-02-24 to 24-02-24.</li> <li>6 Days FDP on "5G Cognitive Communication" by Chalapathi Institute of Technology, Andhra Pradesh,from 17-01-2022 to 22-01-2022.</li> <li>5 Days "Recent Trends in 5G Communication, Design &amp; Technologies", by Rajalakshmi Engineering College, Chennai from 5.7.2022 to 9.7.2022.</li> <li>3 Days FDP on "Programme Monitoring Office – Innovation Entrepreneurship Development Programme", from 20/01/2021 to 22/01/2021.</li> <li>6 Days FDP on "Artificial Intelligence and 5G communication Technology", Poornima College of Engineering, Jaipur from 26/4/2021 to 1/5/2021.</li> <li>7 Days FDP on "Ground Breaking Technologies" by Panimalar Institute of Technology from 1/6/2020 to 7/6/2020.</li> <li>5 Days AICTE ATAL sponsored "Sensors Technology", by St.Joseph's Institute of Technology, Chennai from 17/8/2020 to 21/8/2020.</li> <li>One day FDP on "Data Analysis &amp; Visualization COVID 19 using Python" at Jerusalem Engineering College from</li> <li>5 Days FDP on " Python 3.4.3" at Sona Engineering College</li> <li>5 Days FDP on "Embedded and IOT BOOTCAMP" by Mohamhmed Sathak AJ Engineering College</li> <li>3 Days FDP on " SCILAB" by St.Joseph's Institute of Technology.</li> </ul>

	<ul style="list-style-type: none"> <li>• 12 Days FDP on “Soft Computing Techniques and its Application” at Anand Institute of Higher Technology, Chennai.(AICTE SPONSORED).</li> <li>• 2 days Workshop on “Entrepreneurship Awareness in the Field of ICT” at B.S.Cresent, Chennai</li> <li>• 3 Days workshop on “ Hands On Training in Artificial Neural Networks using Matlab” at MIT , Chrompet</li> <li>• 3 Days NPTEL FDP on “ Python in Data Science”</li> <li>• 3 Days NPTEL FDP on “ Principles of SDR”</li> <li>• 6 Days NPTEL FDP on “ Communication Networks”</li> <li>• 6-Days NPTEL FDP on “ Cloud Computing”</li> </ul>
<b>Professional Membership:</b>	Nil