

Dr. Judy Simon

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Dr. Judy Simon, working as an Assistant Professor in the Department of ECE at SRMIST, Ramapuram. She has completed her UG in Electronics and Communication Engineering in the year 2009 from Magna College of Engineering (affiliated to Anna University) and PG in M.E Applied Electronics in the year 2012 from Sathyabama University, Chennai. She has completed her Ph.D in the year 2021 from the Sathyabama Institute of Science and Technology, Chennai in the domain of Wireless Communication. She served in this teaching profession for more than 11 years. She has published papers in National and International Journals and presented papers in various conferences. She has published patents and was recognized as NPTEL motivated star in STAR Category by NPTEL.

Area of Research: Wireless Communications, Image processing, Deep Learning.

Selected Publications:

Web of Science/ SCI/ Scopus

1. Presented a paper entitled **“A PREDICTION MODEL FOR MINIMIZATION OF FLOOD EFFECTS USING MACHINE LEARNING ALGORITHMS”** at “Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)-2022” conducted by Tribhuvan University, Nepal on 10th to 12th November 2022. **[SCOPUS]**
2. Published a paper entitled **“HYBRID INTRUSION DETECTION SYSTEM FOR WIRELESS IOT NETWORKS USING DEEP LEARNING ALGORITHM”** in Journal of Computers and Electrical Engineering, Vol102, Issue6, July 2022. **[SCI]**
3. Published a paper entitled **“AN ENERGY EFFICIENT ROUTING PROTOCOL BASED ON REINFORCEMENT LEARNING FOR WSN,”** in Journal of IRO Journal on Sustainable Wireless Systems, Vol4, Issue2, Pages 79-89, July 2022. **[SCOPUS]**
4. Published a paper entitled **“ATM SECURITY USING IRIS RECOGNITION”** in Journal of Mobile Computing and Sustainable Informatics. Lecture notes on Data Engineering and Communication Technologies, Vol 126, Pages 97-105, July 2022. **[WOS]**
5. Published a paper entitled **“AN EFFICIENT MACHINE LEARNING BASED MODEL FOR CLASSIFICATION OF WEARABLE CLOTHING,”** in Journal of Artificial Intelligence and Capsule Networks, Vol3, Issue4, Pages 317-329, December 2021. **[SCOPUS]**
6. Published a paper entitled **“DEEP LEARNING BASED TRANSCRIBING AND SUMMARIZING CLINICAL CONVERSATIONS,”** in *Fifth International Conference on I-*

SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC-2021), Pages 358-365, December 2021.**[SCOPUS]**

7. Published a paper entitled **“IMAGE AUGMENTATION BASED ON GAN DEEP LEARNING APPROACH WITH TEXTUAL CONTENT DESCRIPTORS,”** in *Journal of Information Technology and Digital World*, Vol3, Issue3, June 2018.**[SCOPUS]**
8. Published a paper entitled **“A NOVEL SIGNAL PROCESSING BASED DRIVER DROWSINESS DETECTION SYSTEM,”** in *Journal of Information Technology and Digital World*, Vol3, Issue3, Pages 176-190, August 2021.**[SCOPUS]**
9. Published a paper entitled **“AN AMPLIFIED MULTI EQUALIZER MODEL IN LTE-OFDM SYSTEM FOR BER PERFORMANCE,”** in *5th International Conference on Trends in Electronics and Informatics (ICOEI)*, Pages 318-323, June 2021.**[SCOPUS]**
10. Published a paper entitled **“OPTIMAL WAVELETS WITH BINARY PHASE SHIFT KEYING MODULATOR UTILIZED SIMULATION ANALYSIS OF 4G/5G OFDM SYSTEMS,”** in *International Journal of Communication Systems*, Vol34, Issue9, Pages 176-190, August 2021.**[SCI]**
11. Published a paper entitled **“IMAGE PROCESSING TECHNIQUES IN THERMAL AND NON-THERMAL IMAGES,”** in *Second International Conference on Image Processing and Capsule Networks (ICPCN-2021) Lecture Notes in Networks and Systems*, Vol 300, Pages 533–544, September 2021.**[SCOPUS]**
12. Published a paper entitled **“A PERFORMANCE ANALYSIS OF WAVELET BASED LTE-OFDM WITH MULTI-EQUALIZERS,”** in *Turkish Journal of Computer and Mathematics Education*, Vol12, Issue6, Pages 108-116, April 2021.**[SCOPUS]**
13. Published a paper entitled **“A NON-INVASIVE BLOOD CELL COUNTER FOR DISEASE DIAGNOSIS,”** in *Journal of Annals of the Romanian Society for Cell Biology*, Vol25, Issue3, Pages 155-164, March 2021.**[SCOPUS]**
14. Published a paper entitled **“BER ANALYSIS OF 40 GBPS RO-FSO COMMUNICATION SYSTEM FOR 5 G APPLICATIONS UNDER FOG WEATHER CONDITIONS,”** in *IEEE 7th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2020)*, Pages 1-6, November 2021.**[SCOPUS]**
15. Published a paper entitled **“DESIGN OF MASSIVE MIMO DUAL BAND ANTENNA FOR 5G CELLULAR MOBILE COMMUNICATION,”** in *4th International Conference on Electronics, Communication and Aerospace Technology (ICECA-2020)*, Pages 586-591, November 2021.**[SCOPUS]**
16. Published a paper entitled **“IMPLEMENTATION OF INTEGRATED SEPIC-FLYBACK CONVERTER FOR LED DRIVE WITH EFFICIENT POWER FACTOR,”** in *4th International Conference on Electronics, Communication and Aerospace Technology (ICECA-2020)*, November 2021.**[SCOPUS]**

17. Published a paper entitled **“TELEMEDICINE APPLICATION BASED ON MIMO-OFDM SYSTEM ALONG WITH DWT,”** in *Fourth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC-2020)*, Pages 459-466, October 2020.**[SCOPUS]**
18. Published a paper entitled **“A REVIEW ON FACIAL EMOTION RECOGNITION TECHNIQUES,”** in *International Conference on Communication and Signal Processing (ICCSP-2019)*, Pages 0517-0521, April 2019.**[SCOPUS]**
19. Published a paper entitled **“GOOGLE GLASS BASED GPS NAVIGATION USING SMART WATCH,”** in *IEEEEXPLORE DIGITAL LIBRARY, IEEE International Conference on Computational Intelligence and Computing Research(ICCIC2017).***[SCOPUS]**
20. Published a paper entitled **“MULTI SOURCE ENERGY HARVESTING ARCHITECTURE FOR ELECTRICALAPPLICATION,”** in *IEEE XPLORE DIGITAL LIBRARY, IEEE International Conference on Power, Signals and Instrumentation Engineering(ICPCSI 2017).***[SCOPUS]**
21. Published a paper entitled **“ADVANCEMENT OF TDD LTE COMMUNICATION NETWORK AND BEYOND: A REVIEW,”** in *International Journal of Pure and Applied*, Vol 117, Issue 22, Pages 259-263, November2017.**[SCOPUS]**

Patents Published:

Design patent granted –**“WALL MOUNTEDFACE MASK DETECTING DEVICE INTEGRATED WITH TOUCH FREE SANITIZED DISPENSER”** on 14/01/2023

Filed a patent” **MONITORING AND DESIGN OF UNDERWATER SEA ROBOT USING IOT AND AI TECHNOLOGY”** on 15/09/2022

Filed a patent”**4G AND 5G TECHNOLOGY BASED SEVERAL ANTENNAS FOR SMARTPHONE APP USING MULTIMODE”** on 26/07/2022

Filed a patent” **IOT AI BASED SMART UNDERWATER WIRELESS COMMUNICATION USING ML ALGORITHMS”** on21/04/2022

Filed a patent **“GOOGLE GLASS BASED GPS NAVIGATION USING SMART WATCH”** ON 13/02/2019

Professional Bodies:

Name of the Society	Membership No	Type
ISTE (The Indian Society for Technical Education)	136355	Life Time Membership
IETE (The Institution of Electronics & Telecommunication Engineers)	F-503649	Life Time Membership