

Department of Electronics and Communication Engineering

Personal Details

Name:	Dr.R.DHILIPKUMAR
Designation:	Associate Professor
Educational Qualification:	M.E.,Ph.D.
Experience:	05 years
Area of Specialization:	Wireless Communication,Image Processing

Educational Details

S.No.	Degree	Branch/Specialization	Institute/University	Year
1	Diploma	Electrical and Electronics Engineering	The Karur Polytechnic College/Dote	2010
2	B.E.	Electrical and Electronics Engineering	Jaya Engineering College/ANNA University	2013
3	M.E	Applied Electronics	Adhiparasakthi Engineering College/ ANNA University	2017
4	Ph.D	Information Communication Engineering	SSN Institutions/ ANNA University	2021

Publication Details

1. R.Dhilipkumar "Maximizing Solar Energy Efficiency with Efficient Interleaved Boost converter for GridConnected Photovoltaics using Hybrid Approach" International journal on Electrical Power Component System(aug 2024).
2. Dhilip Kumar¹, Prakash K², P. Abirama Sundari³and Sathya S." A HYBRID MACHINE LEARNING MODEL FOR SOLAR POWER FORECASTING" E3S Web of Conferences 387, 04003 (2023) <https://doi.org/10.1051/e3sconf/202338704003> ICSERET-2023
3. Rathika ^a, V. Brindha Devi ^a, R. Premkumar ^b, P. Ranjith ^a, R.DHILIPKUMAR "Experimental investigation on lightweight concrete by adding polystyrene beads" *Materials Today Elsevier* Volume 83, Part 1,2023

<https://doi.org/10.1016/j.matpr.2023.05.444> Impact Factor-2.600.

4. R.Dhilipkumar R,Photovoltaic “Fed Electric Vehicle Charging station in Distribution Network using WSORBFNN Approach”, International journal on Artificial Intelligence tools,ETRAN-D2300513.(may 2024)
5. Marishkumar R,,Dhilipkumar “Maximizing Solar Energy Efficiency with Efficient Interleaved Boost converter for Grid-Connected Photovoltaics using Hybrid Approach” International journal on Electrical Power Component System(May 2024)
6. Shamimul Qamar, Laxman Singh, S. Balambigai, R. Dhilipkumar, “Cervical Cancer Detection based on Computer-Aided Diagnostic Systems by Intelligent Decision Making Systems using Feature Extraction with Classification Algorithm.” (2022)Wireless Communications and Mobile Computing, HINDAWI.
7. DHILIPKUMAR.R,Fluctuations and Noise Letters, World Scientific Publishing company “Implementation and Performance Measure of Fuzzy AHP for Resource Allocation in 5G” (2021) DOI:<https://doi.org/10.1142/S0219477521500206>.
8. DHILIPKUMAR R, Cluster Computing ,“Cognitive radio network based DSTTDCDMA system” (Supplement): 8561- 8567 (2019) DOI:10.1007/s10586-018-1902-z Impact Factor-3.458.
9. DHILIPKUMAR R, Journal of Supercomputing, “Interference cancellation in cognitive radio based MCCDMA system using precoding technique”.76(1): 1-15 (2020) <https://doi.org/10.1007/s11227018-2503-6>. Impact Factor-2.600.

International Conferences

1. Niranjana A , Dr.R. Dhilipkumar Presented a Paper titled Automated Road Detection Through the use of Deep Learning Techniques and UAV images. In 2nd International conference on Power Energy Control and Computation. May 2024.
2. Lithika Dillibabu, Dr.R. Dhilipkumar Presented a Paper titled “BLINK TALK -A MACHINE LEARNING BASED METHOD FOR WOMEN SAFETY USING EEG AND EYE BLINK
3. SIGNALS. In 2nd International conference on Power Energy Control and Computation. May 2024.
4. Bharath.K, Dr.R. Dhilipkumar Presented a Paper titled “GAS LEAKAGE AND ALERT SYSTEM FOR AIR CONDITIONING UNITS. In 2nd International conference on Power Energy Control and Computation. May 2024.
5. Vishnu Kumar.A.S ,Dr.R. Dhilipkumar Presented a Paper titled “ATTENDANCE ON THE BASIS OF THE FACE RECOGNITION USING SECURITY CAMERA. In 2nd International conference on Power Energy Control and Computation. May 2024.

6. Resma.S ,Dr.R. Dhilipkumar Presented a Paper titled "LANE DETECTION IN AUTONOMOUS VEHICLE. In 2nd International conference on Power Energy Control and Computation. May 2024.
7. Jenewar Sarah Singh.M, Dr.R. Dhilipkumar Presented a Paper titled "AI EMPOWERED DRONES. In 2nd International conference on Power Energy Control and Computation. May 2024.
8. Maya.S.H , Dr.R. Dhilipkumar Presented a Paper titled "MEDICAL DIAGNOSTIC SYSTEM USED BY ARTIFICIAL INTELLIGENCES. In 2nd International conference on Power Energy Control and Computation. May 2024.
9. K.Tabitha And V.Vaishnavi ,Dr.R. Dhilipkumar Presented a Paper titled "AUTOMATED PLANT MONITORING SYSTEM. In 2nd International conference on Power Energy Control and Computation. May 2024.
10. Lakshmi Narayanan.M, ,Dr.R. Dhilipkumar Presented a Paper titled "MAXIMUM POWER POINT EXTRACTION FROM PV PANEL USING HYDRAULIC CONTROLS. In 2nd International conference on Power Energy Control and Computation. May 2024.
11. Priyanka.V ,Dr.R. Dhilipkumar Presented a Paper titled "GUARDIAN CRIB. In 2nd International conference on Power Energy Control and Computation. May 2024.
12. Suha Kauser.S.A ,Dr.R. Dhilipkumar Presented a Paper titled "ENHANCING ELECTRICAL
13. ACCOUNTABILITY AND PARTICIPATION THROUGH AADHAR - VOTER ID LINKAGE. In 2nd International conference on Power Energy Control and Computation. May 2024.
14. Ashok Kumar.J And Jayakumar.S, ,Dr.R. Dhilipkumar Presented a Paper titled "LOW COST MYOELECTRIC PROSTHETIC ARM. In 2nd International conference on Power Energy Control and Computation. May 2024.
15. Dr.kavitha,Dr.R.Dhilipkumar Presented a Paper titled "ADVANCEMENTS IN DISTRIBUTED DEEP LEARNING: FEDERATED LEARNING, AUTOML INTEGRATION, AND BEYOND" in ICCSP 2023.
16. Dr.R.Dhilipkumar Presented a Paper titled "Performance of Multi User MIMO-OFDM based Cognitive Radio Network with Comparative Analysis of Interference Cancellation technique"s in 8th IEEE International Conference on Communication and Signal Processing (ICCSP), April 2019.
17. Dr.R.Dhilipkumar Presented a paper titled "Secured Transmission of medical images and Performance a through IWT based Joint VBLAST/STBC assisted MIMO-CDMA system", in 10th International Conference on Antenna Test and Measurement Society (ATMS) India, pp. 128-132, Feb 2017, Hyderabad.
18. Dr.R. Dhilipkumar Presented a paper titled "Encrypted Image Transmission by Arnold Cat-Map Transform through Turbo Coded MIMO System", in 6th IEEE International Conference on Communication and Signal Processing (ICCSP), April 2017.

Program Attended

FDP/STTP

1. Online FDP On “Pathways to Discovery and Innovation: Nurturing Researchers for Tomorrow (PDINR2024)” Organized From 25 April 2024 to 30 April 2024 Organized by Oxford College of Engineering, Bengaluru.
- 2 Two Weeks International “Advancement in Quantum Computing and Sensor Technology for VIKSIT BHARAT@2047 Organized From 15 April 2024 to 27 April 2024 Organized by Centre for Research Development and Promotion [PARISHODHANA] of Pithapur Rajah's Government College(A) Kakinada.
- 3 Online FDP On “Realization Of Community Micro-grid Using Opal-Rt” Organized From 31st July 2023 To 4th August 2023 By “Centre For Smart Grid Technologies” And “School Of Electrical Engineering” , VIT Chennai.
- 4 FDP Titled One week International Faculty Development Programme "RESEARCH INNOVATIONS AND EMERGING ADVANCES IN ELECTRICAL ENGINEERING" 5th Dec -12th Dec 2022.
- 5 Faculty Development Programme on 'e-Governance Initiatives' in association with eGovernance, Govt of Karnataka & GTTC Bengaluru, organised by Department of Electrical & Electronics Engineering, BIT, Bengaluru from 18th to 22nd April 2022.
- 6 FDP titled "Optical Wireless Communication -An Enabling Technology for Next Generation Networks" which is being organized in association with E&ICT Academy, NIT Warangal to be held from (24.1.2022 to 02.02.2022).
7. Attended in the seminar titled "Nano-Photonics based Antenna and Sensor Development" organized by the Department of ECE at Sri Sivasubramaniya Nadar College of Engineering.
8. Attended National Level Technical Conference in “Recent Trends in Plasma Display Technology” held at VIT University, Chennai.

Other Details

Patents

1. **BEAMFORMING BETWEEN CELLS IN CLOUD ENVIRONMENT WITH 6G NETWORK**
2. **A COMPACT INSET COUPLED-FED TRIANGULAR PATCH ANTENNA FOR WIDEBAND 5G APPLICATIONS**
3. **PNEUMATIC-BASED POWER TRACKING DEVICE FOR PV PANEL**

Journal Reviewer

[Concurrency and Computation: Practice and Experience\(Willey\)](#)