

Dr. B.ARUNSUNDAR

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47, Keezhmettu Street, Balaji Nagar, Thiruvannainallur, Villupuram, TamilNadu - 607203.

OBJECTIVE

To have a growth-oriented and challenging career, where I can contribute my knowledge and skills to the betterment of the organization and enhance my experience through continuous learning and teamwork.

ACADEMIC QUALIFICATION

DEGREE	INSTITUTION	BOARD	YEAR OF PASSING	MARKS SECURED (%)
Ph.D. (Information and Communication Engineering)	College of Engineering Guindy, Anna University	Anna University, Chennai	2020	RECOMMENDED
M.E (Communication Systems)	Mailam Engineering College, Mailam	Anna University, Chennai	2015	8.1 (CGPA)
B.E (Electronics and Communication Engineering)	Sree Sastha Institute of Engineering and Technology, Chennai	Anna University, Chennai	2013	7.17 (CGPA)
HSC	Mount Park Hr. Sec. School, Thiyagadurgam	State Board	2009	92%
SSLC	C.C.S.M. Matriculation School, Periyasevalai	Matriculation	2007	78%

EXPERIENCE

- ❖ Research Experience: 4 Years 7 Months
- ❖ Teaching Experience: 01-Year 1 Months
- ❖ Total Experience: 5 Years 8 Months

Currently working as an Assistant Professor in the Department of Electronics and Communication Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai from 08.03.2021 to till date.

AREAS OF INTEREST

- ❖ Wireless Communication
- ❖ Networking
- ❖ Image Processing

PATENTS

- ❖ Patent 1
Title : IOT Based Intelligent Healthcare System for the Detection and Prevention of Patient Health Monitoring
Country : Indian
Status : Published
- ❖ Patent 2
Title : IOT Based Real-Time Weather Prediction System Using NODEMCU 12-E ESP 266 and LabView
Country : Indian
Status : Published

Ph.D. RESEARCH

TITLE: Analysis of Latency, Delay, and Energy Consumption in advanced wireless networks using DRX mechanism.

The objective of the research work is to analyze and optimize energy consumption, which is a critical issue in today's greener world. The discontinuous reception (DRX) based on three contradicting parameters, namely energy consumption, delay, and latency can be optimized for the efficient utilization of UE with optimal energy consumption. The present analysis is also focused to build up a systematic model to estimate latency and energy-saving utilized by the DRX method for active mobile data traffic.

PROJECT PROFILES

- ❖ Master of Engineering (FULL TIME)
TITLE: Implementation of Ubiquitous Telemedicine on 5G Networks
SPECIALIZATION: Communication Systems
- ❖ Bachelor of Engineering (FULL TIME)
TITLE: A Wireless bases Radiation Detection and Alert System using Electrode Arrays
SPECIALIZATION: Electronics and Communication Engineering

INVITED TALKS

- ❖ Delivered a Guest Lecture on “**Basics of Solar PV module and its application**” at MNM Jain Engineering College, Chennai.
- ❖ Delivered a Guest Lecture on “**Solar photovoltaic technology and its applications using PV**” at Mohamed Sathak A. J. College of Engineering, Chennai.

SOFTWARE PROFICIENCY

- ❖ MATLAB, SCILAB
- ❖ Basic knowledge on C, C++
- ❖ Hand on practice on Microsoft packages

COURSES HANDLED

- ❖ Microwave Engineering
- ❖ Transmission Lines and Waveguides
- ❖ Microprocessors and Microcontrollers
- ❖ Problem Solving Skills
- ❖ High-Performance Networks

PUBLICATIONS

JOURNALS

- ❖ B. Arunsundar et.al, ”**An Improved Deep Learning-Based Automated Detection Of Lung Cancer In Medical Image Processing Applications**”, *Cognitive Neurodynamics* (Under Review) (**Impact Factor: 5.082**)
- ❖ B. Arunsundar, P. Sakthivel and E. Natarajan, “**Analysis of energy consumption and latency in advanced wireless networks through DRX mechanism**”,

Journal of Supercomputing, ISSN 0920-8542, pp. 3765-3787, 2018 (**Impact Factor: 2.6**)

- ❖ B. Arunsundar et.al, “ **The Performance of an Efficient Message-Authentication Based Edge Computing for Wireless Ad hoc Network**”, *Computers, Materials & Continua* (Under Review) (**Impact Factor: 3.772**)
- ❖ B. Arunsundar et.al, “ **Maintenance and Monitoring of Wire Rope by pre-stressed cables for magnetic flux using wavelet transform based finite element magnetic resistance circuit exciter**”, *IEEE Instrumentation & Measurement Magazine* (Under Review) (**Impact Factor: 1.549**)
- ❖ Arunsundar B, Srinivasan R, “ **Implementation of Ubiquitous Telemedicine on 5G Networks**”, *International Journal of Advanced Research Trends in Engineering and Technology*, ISSN 2394-3785 Volume 2, 2015.

CONFERENCES

- ❖ Arunsundar B et.al “ **Visible Light Communication Technology in Underwater Communication** ” Sponsored *International Conference On Emerging Trends In Communication And Networking ETCAN'21*.
- ❖ Arunsundar B, Srinivasan R, “**Implementation of Ubiquitous Telemedicine on 5G Networks**” *International Conference On Recent Trends In Electronics Communication And Computation Technologies ICRTECCT2015*.
- ❖ Arunsundar. B, Dhivya K, “**A Wireless based Radiation Detection and alert system using Electrode Arrays**” *International Conference On Innovations In Information Embedded And Communications Systems ICIIECS14, 2014*.
- ❖ Presented a paper on "**Innovative Ideas to Find the Missing Flights**" at Sri Manakula Vinayagar group of Institutions, Puducherry.

MEMBERSHIP

- ❖ Association for Computing Machinery (ACM)
Membership Number: 0601312
- ❖ Institute For Engineering Research and Publication (IFERP)
Membership Number: PM45281037

- ❖ International Association of Engineers (IAENG)
Membership Number: 307770
- ❖ International Society of Research and Development (ISRD)
Membership Number: SM3140902034

WORKSHOPS

- ❖ Reviewer in Journal of Optical and Quantum Electronics (Springer).
- ❖ Reviewer in Journal of Optics (Springer)
- ❖ Reviewer in Applied Computational Electromagnetics Society: ACES Journal.
- ❖ Reviewer in Virtual International Conference on Futuristic Communication and Network Technologies.
- ❖ Participated in a One Week FDP on “ Applications of Cognitive Radio Networks” organized by Kings Engineering College, Chennai.
- ❖ Participated in a five-day FDP on “ Contemporary Trends in IoT and Blockchain” organized by Saveetha Engineering College, Chennai.
- ❖ Participated in a Six-day FDP on “Emerging Advancement of Wireless Communication and Applications of Power Electronics in SmartGrid System” organized by Jeppiaar Institute of Technology, Sriperumbudur.
- ❖ Participated in a five-day FDP on “Applications of Machine Learning in Healthcare Technology” organized by Narayana Engineering College, Gudur, AP.
- ❖ Participated in a five-day FDP on “Wearable Devices” organized by Narayana Engineering College, Gudur, AP.
- ❖ Participated in a six-day FDP on “Digital VLSI Design” organized by Sri Venkateswara College of Engineering, Sriperumbudhur.
- ❖ Participated in NRB-DRDO sponsored FDP on “Recent Trends in Underwater Communication” organized by Sri Vishnu Engineering College for Women at Bhimavaram, AP.
- ❖ Participated in a SEBI-sponsored FDP/workshop on “Financial Education” organized by Surya Group of Institutions, Villupuram.
- ❖ Participated in a workshop on “Role of an Entrepreneur in Today’s Generation” organized by Annai Vailankanni College of Engineering, Nagercoil.
- ❖ Participated in a National Level webinar on “Patent Design and Intellectual Property” organized by Kings Engineering College, Chennai.
- ❖ Participated in a workshop on “NI Academic & Research Day” organized by National Instruments at Hotel Trident, Chennai.
- ❖ Participated in a workshop on “Springer Editorial” organized by the Springer team at Anna University, Chennai.
- ❖ Participated in a workshop on “Various optimization techniques using MATLAB” organized by IFET College of Engineering, Villupuram.

- ❖ Participated in a workshop on “Rout ledge Editorial” by Taylor& Francis India at Anna University, Chennai.
- ❖ Participated in a webinar on “International to ALIBABA Cloud” organized by Surya Group of Institutions, Villupuram.
- ❖ Participated in a workshop on “EURAXESS” organized by the Center for International Affairs at Anna University, Chennai.

PERSONAL DETAILS

DATE OF BIRTH : 03.06.1992

LANGUAGES KNOWN : English, Tamil (Read, Write and Speak).

REFERENCES

1. Dr. P. Sakthivel

Professor

Department of Electronics and Communication Engineering

College of Engineering Guindy, Anna University, Chennai - 600 025.

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2. Dr. V. Jawahar Senthilkumar

Professor

Department of Electronics and Communication Engineering

College of Engineering Guindy, Anna University, Chennai - 600 025.

Contact: +91 8248583846

DECLARATION

I hereby declare that the particulars of the information given above are true to my knowledge.

Place: Chennai

Date:



(B. ARUNSUNDAR)