Contact

bhargavadeepshikha38@gmail.com

www.linkedin.com/in/deepshikha-bhargava-phd-312833b6 (LinkedIn)
scholar.google.com/citations (Other)

Top Skills

Heat Transfer
Python (Programming Language)
SOLIDWORKS

Languages

English (Professional Working)
Hindi (Native or Bilingual)

Honors-Awards

IBIX-2020 Gold award for designing an antenna for breast cancer detection.

Publications

Specific absorption rate and temperature elevation in the human head due to overexposure to mobile phone radiation with different usage patterns

SAR and temperature distribution in human head due to different usage pattern of smart phone

The effect of metal objects on the SAR and temperature increase in the human head exposed to dipole antenna (numerical analysis)

Numerical Analysis of Specific Absorption Rate and Temperature Distribution in Human Eye due to Moving Electromagnetic Source

Microwave imaging of breast cancer: Simulation analysis of SAR and temperature in tumors for different age and type

Deepshikha Bhargava, PhD

Researcher and Lecturer at Kasetsart University
Bangkok City, Thailand

Summary

Looking for Masters and PhD students to join my research.

Interested in BioElectromagnetics, Bioheat Transfer, Multiphysics, Microwave Imaging, Microwave Heating, 3D Modeling, Numerical Analysis, and Simulation.

Google scholar - https://scholar.google.com/citations?user=Inr0vGsAAAAJ
Research gate - https://www.researchgate.net/profile/Deepshikha_Bhargava2

Experience

Kasetsart University
Researcher and Lecturer
November 2023 - Present (1 year 1 month)
Bangkok, Bangkok City, Thailand

Department of Electrical, Mechanical, and Manufacturing Engineering (EMME)

Thammasat University
Postdoctoral Researcher
October 2021 - October 2023 (2 years 1 month)
Thailand

Numerical analysis of specific absorption rate (SAR) and temperature distribution in human eye as a result of the exposure from moving electromagnetic source.

-Simulation/3D modelling

-Finite Element Method (FEM)

-Electromagnetic wave

- Heat transfer

- Porous media

Aditya Birla Training and Research Center, BKBIET.
Research Trainee
June 2015 - December 2015 (7 months)
India

Built a real-time hand gesture-based control system by using Image Processing with Ardunio. The project was supervised by Dr. L. Solanki (Principal, BKBIET, Pilani) and Asst. Prof. S.K. Rai (BKBIET, Pilani). Did the coding in C++ in OpenCV. Published and presented the work at the "International conference on communication systems", American Institute of Physics (AIP), 2015.

Research output:
- Published 1 conference paper

King Mongkut's University of Technology Thonburi
Research Internship
September 2014 - October 2014 (2 months)
Thailand

completed a 2-month internship program as an exchange student at KMUTT, Thailand. Worked under the supervision of Prof. Dr. Kamon Jirasereeamornkul in his lab where I built a boost converter. Took part in the cultural activities and experienced the culture of Thailand for the first time. Received a recommendation letter from my supervisor as an appreciation towards my work during the internship.

Education

Thammasat University
Doctor of Philosophy - PhD, Engineering · (September 2018 - September 2021)

Thammasat University
Master's Degree, Electrical and Computer Engineering · (January 2016 - December 2017)

B K Birla Institute of Engineering & Technology, Pilani
Bachelor of Technology - BTech, Electrical and Electronics Engineering · (September 2011 - June 2015)