

Faculty Profile

Name : Dr Parul Chaudhary
Designation : Assistant Professor
Qualifications : Ph.D., M.Tech. , B.E (ECE)
Phone : **011-25528117/25552667-138**
Email : parul@msit.in
Area of Interest/Specialization: Energy Harvesting, Triboelectric material,
Piezoelectricity,IOT, Applications
Experience : 10 years



Key Publications

1. Parul Chaudhary and Puneet Azad ,”Energy Harvesting from Human Biomechanical Energy for Health-monitoring Devices”, *IETE Journal of Research*, 67(1), 74-81,2021
2. Parul Chaudhary and Puneet Azad,” Energy harvesting using shoe embedded with piezoelectric material”, *Journal of Electronic Materials*, 49(11), 6455-6464, 2020
3. Parul chaudhary, Rohit Sharma, Meena Rao, and Mohit Tiwari, “Role of Machine Learning Applications in Enhancing Cyber Security Effectiveness: An Empirical Study” *Rivista Italiana di Filosofia Analitica Junior* ,14 (1), 405-411,2023
4. Parul Chaudhary,” Analysis of Power dissipation in drift region of 6H-silicon Carbide Dimosfet”, *IOSR journal*,5,59-64,2014
5. Parul Chaudhary,” Smart Assistive Technology for Differently-Abled Persons”, *International Journal of All Research Education and Scientific Methods (IJARESM)*,10(9),234-239,2022

Papers presented in Conferences

1. Parul Chaudhary and Puneet Azad, “Demonstration of double electrode vertical-sliding triboelectric generator." In *2017 International Conference on Computing, Communication and Automation (ICCCA)*, 1483-1487. IEEE, 2017

2. P. Chaudhary and P. Azad, "Power optimization in Triboelectric Energy Harvester ," presented at *ELSEVIER-SSRN Int. Electrical & Electronics Engineering Conf., IEEEEC 2021*, DTU Delhi, October 23-24, 2021.

Awards and Recognitions

1. UGC-NET Qualified

Book Chapter/Books published

1. Parul Chaudhary and Puneet Azad ,” Efficiency Enhancement in a Piezoelectric Energy Harvester for a Low-Frequency System Using Synchronous Charge Inversion”, In *Innovations in Cyber Physical Systems* ,497-503, Springer, Singapore 2021

Memberships of Professional bodies : Lifetime Member of ISTE society

Patent

1. Patent publication -Bowl to identify the content in a mixture

Patent application no. 362144-001 A, Date of application: 07/04/2022 Publication Date: 30/12/2022.1)DR Sumanth Kumar Matha 2) DR Sheerin Masroor 3) DR S. Balaji 4)DR Korla Swapnavahini 5) Prof Dr Jayesh Rasiklal Gujarathi 6) Dr Arti Gupta 7) Dr G Prakash Yoganandam 8)Mr Anand Raj Dhanapal 9) Dr Prakash Tanaji Wankhedkar 10) M sakthi Ganapathi 11) Dr Anand Shanker Singh 12)Dr C. Ananda Vayaravel 13) Parul Chaudhary

2. Patent accepted -Device to harvest energy from roots 2

Patent application no. 367577-001 A, Date of application: 12/07/2022 Accepted 1) Dr Manisha 2)Dr Dharendra Kumar 3) Ratan Chowdhury 4) Dr Harish chander Anandaram 5)Parul Chaudhary6) Dr. Aruna Kumari Nakkella