FACULTY PROFILE

Mrs.P.Padmapriya, M.E, (Ph.D).
Assistant Professor(SG)
Department of ECE,
Hindustan Institute of Technology and Science
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Experience: 8.7 years

Research area: Signal Processing, Bio-Signal Processing, Rehabilitation Engineering, Bioinstrumentation

Patents:

1. Filed and Published for patent with the title "An UAV Assembly for monitoring agricultural waste by Image Processing system and method thereof", 2022
2. Filed and published for patent registration with the title "Machine Vision Based IoT Enabled Spinach Harvesting Robot with Semi-Manual Control", 2022
3. Filed for Patent Registration with the title "Design and Implementation of Metropolitan Bus Access System for Visually Impaired Persons", 2017.
4. Filed for Patent Registration with the title "Design of a Personal Healthcare Device for Early Detection of Labor by Monitoring Physiological Parameters", 2016.

Recent Publications: (last 5 years):

1. Mrs.P.Padmapriya, "Robot Assisted Therapy for Learning and Social Interaction of children with Autusim Disorder", Published Books chapter in title "Automation and control Engineering", ESN Publishers, 2023
2. Mrs.P.Padmapriya, "Infrared Thermal Sensor for a Low Cost and Noninvasive Detection of Skin Cancer", Springer, Singapore Book InECCE2019, Year 2020/p:77-85
3. Mrs.P.Padmapriya, "A Survey on Skin Cancer Detection Using Skin Temperature Variation Analysis", International Journal of Pure and Applied Mathematics, Volume119/Issue15/Pg:1199- 1213/2018
4. Mrs.P.Padmapriya, "Skin cancer detection using non-invasive techniques", Royal society of Chemistry, Doi: 10.1039/C8RA04164D (Review Article) RSCAdv., 2018, 8, 28095-28130

Achievements:

1. “Detection and Analysis of Skin Cancer Dynamics Using Infrared Thermal Sensor” project was selected, presented and awarded runner up for “FAER Contest” June 2018.
2. Design and Implementation of Independent Metropolitan Bus Access for VIP using ZIGBEE” was selected in the “Smart India Hackatron Contest”, 2016-2017 and proud to say that we are the only batch in south India who selected in top 5 finalist.
3. Design of Portable T-Rays Device” was selected in the “FAER Contest” in 2016-2017 and presented that project in MSJIRT, Bangalore on June 22nd & 23rd 2017.