

Sumit Pandey Master of Science

Centre for Reliability Sciences and Technologies Department of Electronic Engineering

Chang Gung University, Taiwan

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Education

Examination	Universi	ty Institute	Year	Percentage/CGPA
M. S.	CGU	Department of Electronic Engineering	2020	3.78/4
Graduation	UTU	Dehradun Institute of Technology	2016	68%
Intermediate	UKBE	V.V.M. Inter College Bageshwar	2011	60%



Research

Research Experience

Research Assistant CReST Lab, C.G.U., Taiwan Machine Learning and Statistical Analysis 17-Feb, 2018 to Present Supervisor: Prof. Cher Ming Tan

Research Assistant C.G.M.H., Linkou, Taiwan Deep Learning Applications in Medical Sciences 10-Nov, 2018 to Present Supervisor: Prof. Kuan Fu Chen

Research Intern and Research Trainee MAC, University of Delhi, Delhi Swarm Terrain Profiler Robotics System

Supervisor: Assoc. Prof. (Dr.) Praveen Kant Pandey

Jan- June, 2016 and Aug, 16- Jan, 17

Course Projects (Theses)

Automatic Fire Initiated Braking And Alert System For Trains. (Guide: Prof Sandeep Sharma) Designed A wireless embedded system that will be used to alert people during precarious fire accidents so that life as well as the damage can be minimized.

Swarm Terrain Profiler Robotics System-STPRS. (Guide: Assoc. Prof Praveen Kant Pandey) An autonomous terrain profiling multi-robotic system designed for stationary work and is equipped with multiple sensors to get information on its surroundings.

Research Publications: Journals

Cher Ming Tan, Udit Narula, Lu An Lai, Sumit Pandey, Jung Hua Tung, Chung Yi Li, "Optimal Maintenance Strategy on Medical Instruments used for Haemodialysis Process", Eksploatacja I Niezawodność - Maintenance And Reliability accepted on February 2019.

Sumit Pandey, Cher Ming Tan, Hsiao-Wen Chen, Yao En Xie, Jung Hua Tung, Yu-Chuan Kau, Chia-Chih Liao. 'Pulse Oximeter for Low SpO2 Level Detection Using Discrete Time Signal Processing Algorithm', Journal of Medical Devices, Transaction of ASME (American Society of Mechanical Engineers)



Research Publications: Conferences

Sumit Pandey, Abhishek Mishra, Sandeep Sharma. "Automatic Fire Initiated Braking And Alert System For Trains" presented at Second IEEE International Conference on Advances in Computing and Communication Engineering ICACCE 2015 and published in the conference proceeding ISBN-13: 978-1-4799-1734-1 and also published in IEEE explore.

Tan Cher Ming, Udit Narula, Lu-An-Lai, Sumit Pandey, Zung Hua Tung, Chung Yi Li "An Illustration of Predictive Maintenance on Medical Instruments using Haemodialysis Machines", ANQ Congress-2018 (Asian Network Quality, 19-20th September 2018, held in Almaty, Kazakhstan) (Selected as a best paper)

Sumit Pandey, Amrindra Pal, Sandeep Sharma., "Smart Automatic News Paper Vending Machine Controller Ic" Proceedings of National Conference on Striving and Thriving towards diffusion of student -driven research in science and technology for inspired learning, ISBN: 978-81-7273-958-4

Praveen Kant Pandey, Maneesha, Sandeep Sharma, Vivek Kumar, Sumit Pandey, "An Intelligent Terrain Profiling Embedded System for Underwater Applications" presented at 2018 4th International Conference on Computational Intelligence & Communication Technology (CICT) and published in the conference proceeding and IEEE xplore, doi: 10.1109/CIACT.2018.8480329.



Major Technical Skills

MATLAB | Python | Machine Learning | Data Analysis | MS-Office | R (novice)



Posts Held

Vice President	IEEE-DIT Student Chapter	Aug 2014 - Aug 2015
Technical Head	SPIE-DIT Student Chapter (World's largest)	Aug 2014 - Aug 2015
Student Adviser	Literary Club, DIT, Dehradun	Aug 2014 - Aug 2015



Extra Courses

"6.86x: Machine Learning with Python-From Linear Models to Deep Learning", **Massachusetts Institute of Technology.** [certificate]

"Remote Sensing, Geographical Information System &Global Navigation Satellite System" Indian Institute of Remote Sensing a research center of Indian Space research Organization(ISRO).



languages

Language	Speaking Proficiency	Writing Proficiency
Hindi	Excellent (Native Speaker)	Good
English	Good	Good
Sanskrit	Intermediate	Good