Sumit Pandey

Master of Science
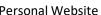**Centre for Reliability Sciences and Technologies**
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Chang Gung University, Taiwan
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Personal Website

Education

Examination	University	Department	Year	Percentage/GPA
MicroMasters	MIT/EDX	Statistics and Data Science	2020	70%
M. S.	CGU	Electronics Engineering	2020	3.78/4
Graduation	UTU	Electronics Engineering	2016	68%

Work 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 (Machine Learning)   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   Jan- June, 2016 and Aug,16- Jan,17
Supervisor: Assoc. Prof. (Dr.) Praveen Kant Pandey

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 | Tensorflow| Keras |Data Analysis | MS-Office | R (novice)

Extra Courses

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

"Neural Networks and Deep Learning", DeepLearning.ai **[certificate]**

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

References

Name	University	Relationship
Dr. Sandeep Sharma	Chang Gung University	Advisor/Mentor
Dr. M. K. Loganathan	Chang Gung University	Mentor
Dr. Praveen Kant Pandey	University of Delhi	Advisor/Mentor