

Soumyadeep Patra

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Research Project

Summer Intern at IIT KGP(June 2020-Present) Under Supervision of Dr. Aurobindo Routray

Parameter Estimation of Underground Cable Transients

Significant Parameters such as Amplitude, Frequency, Phase angle, Damping Factor of different types of transient signals generated in the underground cables using some well known stochastic optimization algorithms widely used in deep learning applications. The algorithms employed include Gradient Descent with MOMENTUM, AdaGrad, RMSProp and Adam.

Personal Projects

Improving Control of Prosthetic Fingers Using Surface Electromyogram Signals – Under Guidance of Prof.

Amitava Chatterjee

The dataset containing the EMG signals for finger Movements has been collected. The key features have been extracted and the size of the dataset is reduced by PCA and LDA. Finally the features have been classified by using ANN and SVM.

Academic Courses

Digital Signal Processing(NPTEL)

Certification Course in C & C++ (NIELIT)

Deep Learning for Visual Computing

Languages Known

Python, SQL, Tensorflow, MATLAB, C, AUTOCAD, 3DF ZEPHYR

Other Acheivments

Former Event Lead at Circuistic, Convolution, Tech Fest JUEE

Rank 14 in the Secondary Examinations 2014

Rank 455 in WBJEE, 2017

Education

EXAMINATIONS PASSED	YEAR	INSTITUTION	% OF MARKS OBTAINED / CGPA
10 th	2014	Bankura Banga Vidyalaya	90.6%
12 th	2016	Bankura Christian Collegiate School, Bankura	95.3%
BE	2021	Jadavpur University	9.25