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NH-16, Anakapalle, Visakhapatnam-531002, Andhra Pradesh.

(IOTDA-2K21)

17-18 Dec, 2021

**Department of Computer Science & Engineering
and Electronics & Communication Engineering**

Proceedings of Two Day Online National Conference on Internet of Things : Design & Applications

Sponsored by



Chief Patron : Sri Dadi Ratnakar, Chairman

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Conference Website Link

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Design and Implementation of Underground Cable Fault Detector review on control strategies in microgrid to smart

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Abstract. The Underground cables have been widely used in power system grid applications. Underground cables are prone to a wide variety of faults due to underground conditions, wear & tear, rodents. Detecting fault is difficult because entire line is to be dug at cable line. The repairmen should know about the part which has fault and that area is to be dug to detect the fault source will allow one to reduce the downtime. Thus, it saves a lot of time, money and allows to service underground cable lines faster. The aim of this project is to design and determine the distance of underground cable fault from base station in Km and to implement the same with proposed fault detector by using Arduino.

Keywords: Downtime, Fault detection, underground cables