

Transmission Line Inspection Using Drones

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Abstract : Maintenance on power transmission lines requires a lot of works. Sometimes they should be maintained on live-line environment with high altitude. Therefore, there always exist risks of falling from height and electric shock. To decline those risks, drones are recently applying on the electric power industry. This paper presents new operational technology while inspecting power transmission line. This paper also describes a technique for creating a flight path of a drone for transmission line inspection and a technique for controlling the drones of different types. Its technical and economical feasibilities have confirmed through experiments.

Keywords : drones, transmission line, inspection, control system

Conference Title : ICEEE 2017 : International Conference on Energy and Environmental Engineering

Conference Location : Paris, France

Conference Dates : November 20-21, 2017