**Internet of Things (IoT) For Galactic Cosmic Rays Application Over Astronomical Observatory in Near Future: A Review Study**

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**ABSTRACT**

Today, Galactic Cosmic Rays (GCRs) it’s very harmful for human life. The Ultra-high Neutrino radiation GCR’s energy from outside galaxy were intimidated Earth and Environmental. The measurement GCR’s energy using neuron monitor is successful to capture Ultra-high Neutron and Gamma ray, respectively. During Fourth Industrial Revolution (4IR), the current neutron monitor were expanded into Internet of Things (IoT) system to obtain Ultra-high Neutron and Gamma ray in near future. Thus, in this study aimed to develop conceptual study of Neutron Monitor with IoT system over Astronomical Observatory. The result shows Neutron Monitor with IoT system need to deploy in Equator and Antarctic region due to Gamma ray distribution. Here, Neutron Monitor data with IoT system were applied to analyze Natural Hazard potential with predictor from Pressure, Corr, and Uncorr parameter. By using auto send status from IoT system, Natural Hazard potential will be updated per-hour into stakeholder (e.g. hospital, Astronautics, and meteorology service). Thus, a disaster victim’s from Natural Hazard potential caused by Ultra-high Neutron and Gamma ray will be minimized using IoT system during evacuation process in near future.

***Keywords:*** *Galactic Cosmic Rays Application (GCR), Internet of Things (IoT), and* Natural Hazard