

ZIG BEE BASED VALCANO DETECTING SYSTEM (VDS)

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ABSTRACT

The main contribution of this project is the design of a robust sensor network optimized for rapid deployment during periods of volcanic unrest and provide real-time long-term volcano monitoring. The system supports UTC-time synchronized data acquisition with 1 ms accuracy, and is remotely configurable. It has been tested in the lab environment, the outdoor campus and the volcano crater.

KEYWORDS: Robust Sensor Network, Rapid Deployment, Volcanic Unrest. Real-Time Long-Term Volcano Monitoring, Lab Environment