

INTRODUCTION:

In the era of IoT and beyond, the urban and suburban population health monitoring transitions to use of wearables and intelligent health support systems. Unfortunately, the indigenous people and search and rescue operators who are often in remote and dangerous vicinities cannot benefit from the advantages due to limited connectivity, often caused by the lack of infrastructure. Furthermore, current wearables have only provided physiological measurements but not psychological which is a growing concern worldwide. In this project, a novel integrated IoT wrist-wearable with physiological and psychological biosensors are proposed with complementary activity, environmental, and position sensors to provide alerting situations and localization data relevant to the indigenous people and disaster recovery operations. The system will be empowered by edge intelligence and wireless LoRa-link to an in-vehicle or stationary data center. With this solution, the medic or emergency medical service (EMS) personnel will be able to know the real-time condition and able to decide of any intervention.

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