Development of Remote Health Monitoring System for Patients using IoT

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Abstract: *According to the constitutions of the World Health Organization (WHO), the highest attainable standard of health is a fundamental right for an individual. As we are truly inspired by this, we attempt to propose an innovative system that puts forward a smart patient health tracking system. This paper extends the author's previous works by instantiating the Reference Architecture for IoT-based. Healthcare Applications (RAH) for healthcare applications for the context of the COVID-19 outbreak. We show how wearable and unobtrusive sensors can be integrated into the proposed platform and used to collect and process patient data to promote rapid clinical interventions while preventing contagion between clinical staff and infected patients. Finally, we report the results from a real experience, which used our approach to develop and deploy a system used by the intensive care unit (ICU) for COVID-19 patients in Brazil. Therefore, this paper aims to extend the platform proposed in, initially designed for patients' de-hospitalization, by including wearable and unobtrusive sensors to monitor patients with coronavirus disease.*

Keywords: Health Monitoring

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