SISTEM NOTIFIKASI KEBUTUHAN PASIEN BERBASIS *GESTURE RECOGNITION* (KINECT V2) DAN *INTERNET OF THINGS*

Febby Febriansyah[1], Novian Anggis Suwastika[2], Hanif Fakhrurroja[3]

[1,2]Fakultas Informatika, Universitas Telkom, Bandung
[3]UPT Balai Pengembangan Instrumentasi, Kampus LIPI Bandung
[1]febbyfeysyah@students.telkomuniversity.ac.id, [2]anggis@telkomuniversity.ac.id,
[3]hanif.fakhrurroja@lipi.go.id

Abstract
Patient's activity is a key factor that should be prioritized to support the patient's recovery. Oftentimes, the absence of companion can make a patient helpless in times of need. Especially if he/she is an elderly or in a weak physical condition. When a patient forces their will, a lot of unwanted incidents may happen. Hence it's common in several hospitals to use the bell as a nurse-alert mechanism. But the nurse still had to go back and forth to fetch the necessary equipment, e.g. changing IV. This technology isn't efficient because there is no information regarding a patient's specific needs and no confirmation for patients about the nurse that could attend to their needs.

The patient necessity notification system is built to address the issue. It detects body movements using Kinect V2 sensor which is implemented in IoT. Information about patient's needs can be seen through a device connected to the hospital's local network. The system will work optimally if the distance between the patient and sensor is between 2.5 - 3 meters and there are no obstacles that could block the entire detection point of patient's body skeleton that will affect the performance and accuracy of the system.

Keywords: kinect v2, patient necessity notification system, gesture recognition, internet of things