

Preliminary Study of Cloud Aided Monitoring of Basic Physiological Signals

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Abstract— This study presents an instrument for basic physiological signal acquisitions which can be sent to cloud for monitoring and computation. The basic physiologic signals included user's temperature, breath and heart rates. The Bluetooth communication technology was employed to connect between the microcontroller module and notebook computer or smart phone. Because the raw data has been converted to values of heart and breath rates, the communication volume between client and cloud can be much reduced, as well as this technology can be employed for the other physiological signals to elevate the performance of this system in the near future.

Keywords— temperature, breath rate, heart rate, cloud, computation, Bluetooth communication.



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