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Measurement Site and Applied Pressure Consideration in Wrist Photoplethysmography

Eun Geun Kim, Hyun Heo, Ki Chang Nam, Young Huh,

pp.-

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Summary:

The objective of this study is to describe preliminary evaluation of a new opti al reflectance sensor module with air pressure cuff. In order to improve PPG signals from the wrist as an example of wearable PPG, the optical reflectance sensor module includes two identical photodiodes and a pair of red and infrared LED. The sensor module was packaged inside of a cuff to demonstrate the efferts of pressure applied to reflectance probe at the radial artery in the wrist. PPG signals with large amplitude were measured when the induced cuff pressure was close to mean blood pressure. This result will be applied to development of a wrist type healthcare devire. Copyright © IEICE. All rights reserved.

