

Wireless monitoring method for diabetic foot temperature

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Abstract—This work presents a wireless monitoring method for diabetic foot temperature. In the implementation we used an FLIR infrared camera, a BME280 temperature sensor and an embedded board. Our final suggestion is prototype of the wireless monitoring device of diabetic foot temperature and its mobile application for the smart devices such as wearable device, mobile phones, smart watches, tablets and pads. To develop the fully independent embedded system we also developed the wireless wearable device using the ARM7EJ-STMC processor cored MT2502 RePhone Kit Create. Hence our device is implemented on the powerful embedded platform, we can suggest daily or short and long term monitoring for the consumer and clinical usage.

Keyword—diabet, thermal image, IR camera, foot ulceration, rephone kit create



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