Modular platform architecture for fast prototyping of vital signs and motor activity monitors

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Mario Ribeiro ; Octavian Postolache ; Pedro Silva Girão All Authors

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Abstract:
Continuous monitoring of vital signs and motor activity represents a challenging task that is usually associated with home healthcare systems. Different solutions are known generally being characterized by limited flexibility and capability to be integrated in nove architectures associated with remote assessment of health condition of patients out of hospital. In order to assure higher flexibility a modular platform associated with fast prototyping of specific monitor was designed and implemented. A practical approach concerning system applications and performances is included in the paper.

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Contents

I. Introduction

The development of reliable monitors for vital signs and motor activity continues to be an important challenge for biomedical research groups taking into account the high diversity of measurements that must be done desirably in a non-invasive and unobtrusive way. It must be also considered the flexibility, transparency and adaptability of the real time platforms used for fast prototyping of biomedical monitors as part of pervasive healthcare systems.

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