Health Care Management with KeepCare

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Wireless sensing is part of our lives; major technological breakthrough on the areas of sensors, integrated circuits, and also on wireless communications, led to the creation of wireless sensor networks (WSNs). Such networks have multiple uses, from monitoring and tracking of people and goods, to the coordination and processing of activities in different contexts, they are used in industry, defence and healthcare application. As part of this use in healthcare applications KeepCare, a solution based on monitoring, tracking and processing of healthcare related information, is presented in this paper. This solution uses a WSN based application to monitor people’s health and quality of life through vital signs and activity information received via wireless sensors. This solution monitors users such as elderly, people suffering from chronic conditions in their home environment, but can as well be used in athletes or other professionals (e.g. first responders) that need to be monitored under hazardous conditions.

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