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#### I. Introduction

Demographic developments, social changes, and the rising costs of health and social care regarding people with chronic diseases and elderly population require, around the world, efficient utilization of physicians, reducing hospital stays and hospital readmission rate, reducing the skill level and frequency of visits of home-care professionals, and promoting health education [1] [2] [3]. However, efficient pervasive health care architectures, mechanisms and systems can alleviate the problem of supporting and caring for people with a long term condition and less mobility. Pervasive sensing [4] and computing [5] as main parts of ubiquitous healthcare systems, enable medical professionals to remotely Sigenform real time Regultining, early diagnosis, and treatment for potential risky diseases [6]. At the same time, these systems provide to the users the possibility to perform biofeedback experience [7] and to diminish the stress regarding clinical assistance. Combining smart sensors [8] in wearable form (e.g. smart t-shirt) or embedded in daily used objects (wheelchair, for people with motor diseases) [9] [10] the personalized profile of the user's physical and physiological patterns can be analyzed in an unobtrusive way. Pervasive computing using smartphones express nowadays a common way to assure data management associated with in home TeleCare throughout a human-machine- interface (HMI).

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