CONFIDENCE

The main objective of this work is the development and integration of innovative technologies to develop a care system for the detection of abnormal events (such as falls) or unexpected behaviours that may be related to a health problem in elderly people. Nowadays, most of the care systems in the market are limited to detect falls. The innovation of the system developed by the CONFIDENCE project is that it will not only detect falls, but also identify short and long term unexpected behaviours that could indicate health problems.

With the proposed approach, the elderly will gain confidence and independence. CONFIDENCE will be a cost effective, non-intrusive and reliable system that will increase the quality of life and security of the elderly and, thus, prolong their personal autonomy and participation in society. Not only will the elderly profit from the system, but also their families and caregivers, since the burden on them will be substantially reduced. CONFIDENCE aims to decrease the need of institutionalisation of the elderly.

The proposed system will work both outdoors and indoors. Information about the user's location, together with some environment information, will be analysed to decide whether to trigger an alarm. The system will be easy to setup and to use and will not constrain the user's daily life. The user will keep control of the system and can customise the alarm protocol. In case of an abnormal situation such as a fall or an accident, CONFIDENCE will permit a rapid actuation of the health services, which will decrease the negative consequences of the accident (worsening of injuries, psychological impact of being alone and injured, etc…)

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