Integrated monitoring system for fall detection in elderly

Submitted by Pierre Chauvet on Wed, 05/28/2014 - 15:41

Titre	Integrated monitoring system for fall detection in elderly
Type de publication	Communication
Type	Communication avec actes dans un congrès
Année	2012
Titre du colloque	International Conference on Audio, Language and Image Processing (ICALIP 2012)
Pagination	62-67
Auteur	Khawandi, Shadi [1], Daya, Bassam [2], Chauvet, Pierre [3]
Pays	Chine
Editeur	IEEE
Ville	Shanghai, China
ISBN	978-1-4673-0173-2
Résumé en anglais	Falling and its resulting injuries are an important public health problem for older adults. The National Safety Council estimates that persons over the age of 65 have the highest mortality rate (death rate) from injuries. The risk of falling increases with age; one of three adults 65 or older falls every year. Demographic predictions of population aged 65 and over suggest the need for telemedicine applications in the eldercare domain. This paper presents an integrated monitoring system for the detection of people falls in home environment. The system consist of combining low level features extracted from a video and heart rate tracking in order to classify the fall event. The extracted data will be processed by a neural network for classifying the events in two classes: fall and not fall. Reliable recognition rate of experimental results underlines satisfactory performance of our system.
URL de la notice	http://okina.univ-angers.fr/publications/ua3113 [4]
DOI	10.1109/ICALIP.2012.6376585 [5]

Liens

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[5] http://dx.doi.org/10.1109/ICALIP.2012.6376585

Publié sur *Okina* (http://okina.univ-angers.fr)