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Articles

Defining the user requirements for wearable and optical fall prediction and fall detection devices for home use

Mehmet Gövercin ✓, Y. Költzsch, M. Meis, S. Wegel, M. Gietzelt, J. Spehr, ...show all Pages 177-187 | Published online: 06 Dec 2010

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Abstract

One of the major problems in the development of information and communication technologies for older adults is user acceptance. Here we describe the results of focus group discussions that were conducted with older adults and their relatives to guide the development of assistive devices for fall detection and fall prevention. The aim was to

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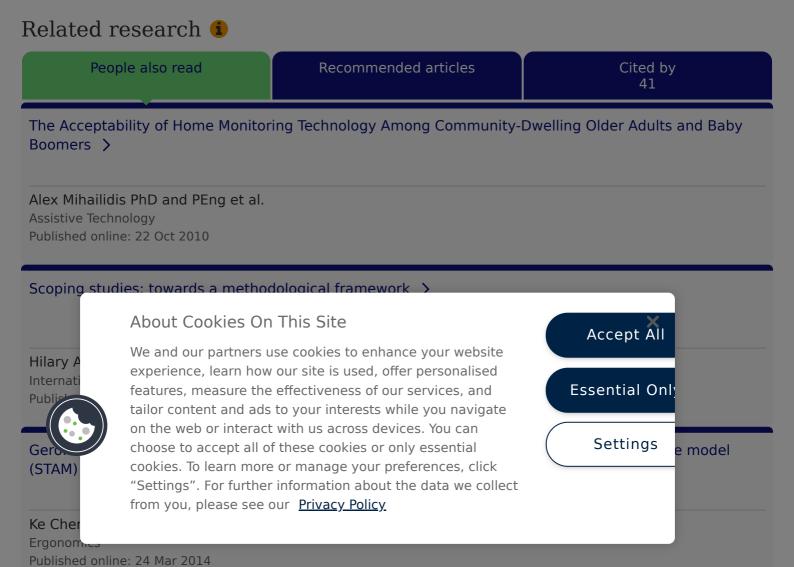
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reasons for people at risk of falling to buy a wearable and/or optical fall prediction and fall detection device. Design specifications should include a wearable, non-stigmatising sensor at the user's wrist, with an emergency option in case of falling.

Q Keywords: Accidental falls ambient assisted living biomedical technology caregivers focus groups gait information and communication technology mobility limitation older adults patient acceptance of health care technology medical user-centered design

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