MONASH University

MONASH INFORMATION TECHNOLOGY

HUMANISE

ADAPTIVE USER INTERFACES

TARGETING CHRONIC DISEASE

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At a glance

Goal

Develop adaptive user interfaces (AUIs) for mHealth apps aimed at people with chronic diseases to enhance self-management, improve medication adherence and cater to diverse user needs and preferences.

Strategies

- Systematic Literature Review (SLR) to examine and analyse literature.
- Adaptation prototype development based on the SLR.
- User studies to validate and evaluate the prototype.
- Model-Driven Approach to automatically generate AUIs.

Key outcomes

Applications and directions

From the SLR, we identified how AUIs were used in the chronic disease domain and key research issues to investigate.

AUI prototype

We developed a prototype of AUIs to explore presentation, content and behaviour adaptation in the chronic disease domain.

Large-scale user study

The user study provided insights into AUIs usability issues, user preferences, and target user groups that benefit most from AUIs – offering valuable guidance for future development.

AUI applications in the chronic disease domain

Tailored information delivery

AUIs present tailored chronic disease information, adapting content, format and detail based on the user's condition.

Personalised disease management

AUIs provide custom recommendations and tools for self-management, medication adherence and lifestyle changes.

Enhanced user experiences

AUIs can create positive experiences for users with varying levels of digital literacy or physical limitations.

Decision support

AUIs help patients make informed choices about lifestyle modifications and self-care through features such as proven guidelines tailored to the patient's chronic condition.

Learn more

To collaborate on this AUI project or to express interest in joining future studies contact Wei Wang or scan the QR code.

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