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SEIT 1386

Masterstudiengang  
Medizinische Informatik

Praktikum  
Biomedizinische Informatik

**HTN**  
HOCHSCHULE HEILBRONN

Call for papers for a special issue:

Sustainable Use of Medical Apps

### **Motivation of the special issue**

Medical applications on mobile devices for patients (mhealth apps) are becoming increasingly important in modern healthcare. There is literature available on the evaluation of usefulness and usability of mhealth apps [1] [2]. Even if there is a positive evaluation of mhealth apps, it is often observed that the engagement of the target group with the app decreases after a certain period of time [3] [4] [5].

Therefore, the aim of this special issue is to provide a platform for collecting the current knowledge on experiences with sustained use of mhealth apps, factors that might influence decreasing motivation to use mhealth apps over time, and factors that motivate sustained use or adherence of the target group. Papers that focus on specific disease areas or certain motivational aspects are welcome, as well as more general reviews.

### **Objectives**

The objective of this special issue is to present the current research on how to achieve sustainable use of mhealth apps by the target group.

### **Special Issue Organizers**

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### **Deadlines**

21.03.2024 Call for papers

21.05.2024 Submission deadline

02.06.2024 Initial reviews ready and feedback submitted to authors

03.07.2024 Final versions of all papers



### Submission instructions

High quality, original papers contributing to the objective of the focus theme are solicited. All manuscripts submitted will be subject to a rigorous peer review process. In general, the manuscript text should preferably not exceed 12 pages in print (excluding references).

The papers must follow the preparation guidelines of the IEEE Transactions on Medical Imaging (cf. submission template in the ILIAS course 'Praktikum BMI').

Papers must not have appeared in, nor be under consideration by other journals. Please submit your paper electronically directly via the ILIAS course 'Praktikum BMI'.

### References

- [1] Anders C, Moorthy P, Svensson L, et al. Usability and User Experience of an mHealth App for Therapy Support of Breast Cancer Patients: A Mixed-Methods Approach Using Eye-Tracking. JMIR Human Factors 2023
- [2] Carreiro S , Newcomb M, Leach R, et al. Current reporting of usability and impact of mHealth interventions for substance use disorder: A systematic review. Drug and Alcohol Dependence 2020; 215
- [3] Dahlhausen F, Zinner M, Bieske L, et al. There's an app for that, but nobody's using it: Insights on improving patient access and adherence to digital therapeutics in Germany. Digital Health 2022; 8:1-12
- [4] Jakob R, Harperink S, Rudolf A, et al. Factors Influencing Adherence to mHealth Apps for Prevention or Management of Noncommunicable Diseases: Systematic Review. Journal of Medical Internet Research 2022; 24(5):1-27
- [5] Jakob R, Harperink S, Rudolf A, et al. Mobile phone applications and their use in the self-management of Type 2 Diabetes Mellitus: A qualitative study among app users and non-app users. Diabetology and Metabolic Syndrome 2019; 11(1):1-17