

Co-located with the 13th ACM Conference on Recommender Systems



The 4th International Workshop on Health Recommender Systems

Organizers:

David Elsweiler,
Bernd Ludwig,
Alan Said,
Hanna Schäfer,
Helma Torkamaan,
Christoph Trattner



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Preface

Digital health has provided more access to affordable health care, self-care, and quantified self. Individuals and clinicians, as a result, are faced with a vast amount of health data and limited time for decision making. Recommender systems can improve digital health by supporting experts and individuals to lower the burden of choice overload and further to automate various processes in the health domain. The Health Recommender Systems (HRS) workshop is discussing multiple fields in which recommender systems can improve well-being, health, and self-awareness. The use of recommender systems in the health domain gives a new perspective to current discussions and challenges of recommender systems including how to involve users in the recommendation process, as well as the need to account for crucial aspects of trust and privacy.

Following the three previous workshops in 2016, 2017, and 2018, the focus of this workshop is to intensify the discussion on health promotion, health care, as well as health-related methods. This workshop also aims at strengthening the HealthRecSys community, at engaging representatives of other health domains into cross-domain collaborations, and at exchanging and sharing infrastructure. This volume contains the papers presented at the fourth international workshop on health recommender systems on September 20, 2019, held as part of the 13th ACM Conference on Recommender Systems in Copenhagen, Denmark. After a peer-review process with at least three reviewers per paper, six papers with the highest quality were accepted for presentation in the workshop. The topics of the 2019 submissions covered a variety of goals, data types, algorithms, and sub-domains of health. The most common goals of the health-recommenders presented are Motivation, Adherence, Persistence, Personalization, Behavioural Change, Interpretability, and Sustainability. As in previous years, there is a strong emphasis on lifestyle recommendations such as Food and Recipe Recommendation, Exercise Recommendation, and mental health. The HRS chairs would like to thank the RecSys 2019 organizing committee, especially the RecSys workshop chairs for their support. We would also like to thank the authors, presenters, and PC members, whose efforts made the workshop possible.

September, 2019

David Elsweiler
Bernd Ludwig
Alan Said
Hanna Schäfer
Helma Torkamaan
Christoph Trattner

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