

Preface to the 6th International Workshop on Personalizing Persuasive Technologies (PPT 2022)

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Preface to the 6th International Workshop on Personalizing Persuasive Technologies (PPT 2022)

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1 Introduction

Research in persuasive technology (PT) and behaviour change systems has seen significant growth over the last couple of years. One area of PT that still poses challenges to researchers is the area of personalizing persuasive technologies. Research suggests that persuasive technologies are more likely to result in the desired behaviour or attitude change when they are personalized to an individual or groups of similar individuals [12]. Attempts have been made in different domains to personalize persuasive technologies using various user traits. For example, individual characteristics such as personality type [6, 15, 24], age [19], gender [20], gamer type [21, 23], culture [5], and individual's susceptibility to persuasive attempts [13, 14] have been used for tailoring persuasive strategies. Research has also explored how various psychological processes can be used to explain the persuasive effect of tailoring [7, 8, 10]. Furthermore, in e-commerce, consumers' shopping motivation [3, 4] and online shopping behaviour [1, 2] have been used in personalizing PT.

Despite these advances, there are still many unexplored issues regarding the design, implementation, and evaluation of personalized persuasive systems and the efficacy of personalized persuasive systems in different domains. In addition, the best approach to tailoring PT is still unclear. Furthermore, there are calls for a more dynamic and data-driven approach to personalization where current machine learning and artificial intelligence algorithms can be applied to the data generated by persuasive technology applications. This workshop aims to bring experts in the domain of personalized persuasive technologies that can engage in open discussions around these topics.

2 Previous PPT Workshops

Five editions of this workshop have been held successfully in the past in conjunction with the Persuasive Technology Conferences from 2016 to 2020. All the workshops resulted in several peer-reviewed papers on a variety of topics in PPT including methods, theories, systems, and domains [16–18, 22]. Hundreds of participants from more than 20 different countries participated in the previous workshops. The workshops offered a platform for networking and exchanging of ideas for scholars and practitioners from both academia and industry. The workshops also resulted in archived proceedings published with CEUR publishing and a special issue in 2019. This year's full-day workshop will build on the success of the previous editions and advance the research are a

further by addressing outstanding challenges and opportunities identified during the previous workshops while identifying new ones.

3 Workshop Organizers

The workshop was organized by the following program co-chairs:

- Ifeoma Adaji, University of British Columbia, Canada
- Kiemute Oyibo, University of Waterloo, Canada
- Rita Orji, Dalhousie University, Canada
- Jaap Ham, Eindhoven University of Technology, Netherlands
- Oladapo Oyebode, Dalhousie University, Canada

4 Accepted Papers

Due to current COVID-19 restrictions and the hybrid nature of the conference, this year's workshop will hold virtually. We anticipate that over 20 participants will attend this year's virtual workshop from various countries around the world. Four papers were accepted to be presented at this year's workshop from a range of research areas on designing effective and personalizing persuasive technologies. Each paper received two reviews in double-blind review process.

In the first paper titled "Contact Tracing Apps: A Comparative Analysis of Canada's COVID Alert and India's Aarogya Setu based on Persuasive System Design Model" [25], the authors compared the COVID-19 contact tracing app of Canada to that of India using the Persuasive System Design (PSD) model to identify any similarities and differences between both apps. The authors concluded that the Indian app implemented more persuasive features than the Canadian app.

In the second paper titled "What if Gamified Software is Fully Proactive?" Towards Autonomy-Related Design Principles" [9], the authors proposed four formal principles for the design of autonomous gamified systems, which are based on argumentation-based games commonly used in describing the interaction between an agent and a user.

In the third paper titled "A Longitudinal Study Examining the Sustainability of the Behavioural Intention to Stop Smartphone Zombie Behaviour" [26], the authors examined the sustainability of the intention and willingness to stop zombie behaviours in a longitudinal survey among three groups of participants. The three groups were presented different numbers of text-based persuasive images corresponding to their group number to change smartphone zombie behaviour. The results showed a significant effect of group (i.e., message combination) on behavioural intention. The authors concluded that for people to stop using their smartphones while walking and maintain it, they need to be informed of the danger of smartphone zombie-like behaviour.

Finally, in the fourth paper titled "A Neuropsychological Perspective on Praise and Rewards in Persuasive Technology" [11], the authors present results from a literature review that explores how perspectives from neuropsychology could contribute to the area of persuasive technology, particularly the use of praise and rewards.

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