PERDIS
2018

PROCEEDINGS

PERVASIVE DISPLAYS 2018

THE 7TH ACM INTERNATIONAL SYMPOSIUM ON PERVASIVE DISPLAYS

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Cover picture by Florian Alt, “Panoramic View of the Frauenkirche”, taken in Munich, Germany.

Foreword

On behalf of the entire organizing committee we proudly welcome you to the 7th ACM International Symposium on Pervasive Displays - PerDis 2018 for short. This year, it is being held in Munich, Germany. After now six previous symposia, 2012 at the University of Minho in Porto, Portugal; 2013 at Google in Mountain View, California, USA; 2014 at the University of Copenhagen in Denmark; 2015 at the University of Saarbruecken in Germany; 2016 at the University of Oulu in Finland, and 2017 at the Università della Svizzera italiana (USI) in Lugano, Switzerland, PerDis has firmly established itself as the place to network with a diverse but focused research community in the highly interdisciplinary field of pervasive displays.

Seven years after its inaugural edition, displays research continues to evolve. This year's symposium offers the latest developments on diverse topics crossing user studies, interaction, engagement, information awareness, novel applications, and augmented and virtual reality. The presence of dedicated sessions on display design strategies, applications, novel displays, and installations illustrates the practical side of pervasive displays research area, while a session on augmented and virtual environments introduces new challenges and exemplifies the potential for augmenting our environment with such new technologies. We thank our keynote speaker, Prof. Dr. Nigel Davis, for sharing the insights on the natural usage of ubiquitous digital signage and pervasive displays and highlighting analytics to capture the user interaction. We also thank our keynote speaker, Prof. Dr. Gurdun Klinker, for sharing the insights on Gamification for Augmented Reality, an emerging and highly relevant topic for pervasive displays for information visualization in public spaces and testing user experience with novel displays.

As it has become customary, PerDis 2018 is again a three-day symposium, offering a single tutorial day and two days with technical presentations. Thanks to our tutorial speakers, we offer four tutorials this year: "Introduction to Augmented Reality and practical examples with the Microsoft HoloLens" by Pascal Knierim, "Introduction to Augmented Reality and practical examples mobile augmented Reality based on HTML" by Jakob Karolus and Matthias Hoppe, "Foundations of interactive Pervasive Display Systems: Understanding the future of digital signage" by Florian Alt, and "Intelligent Interactive Systems an Introduction to Machine Learning for Human-Computer Interaction" by Sven Mayer and Huy Viet Le.

Our program committee comprising 34 leading experts drawn from 28 institutions in 9 countries around the world followed a single-blind review process to select 22 of the 36 papers submitted. The program further includes 9 research posters and 4 demonstrations presented during the poster and demo reception on Thursday afternoon. In our program selection, we again emphasized quality and inclusivity, aiming to showcase a wide range of work rather than maintain a low acceptance rate.

The symposium was organized by a small but committed group of people. We would like to thank our program committee for delivering numerous reviews; our demo and video chairs Matthias Baldauf and Mateusz Mikusz; our poster chairs: Salvatore Sorce and Katja Kurdyukova; our proceedings chairs Passant El.Agroudy and Vito Gentile; and our web chair Jonas Auda.

We hope you enjoy the PerDis 2018 program, and that you get to enjoy Munich and its surroundings while attending the symposium.

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