

Preface

This volume contains selected research papers and descriptions of prototypes and products presented at DESRIST 2016 - the 11th International Conference on Design Science Research in Information Systems and Technology held from May 23–25, 2016, in St. John's, Newfoundland, Canada.

The DESRIST conference continued the tradition of advancing and broadening design research within the information systems discipline. DESRIST brings together researchers and practitioners engaged in all aspects of design science research, with a special emphasis on nurturing the symbiotic relationship between design science researchers and practitioners. As in previous years, scholars and design practitioners from various areas, such as information systems, computer science, industrial design, design thinking, innovation management, service science, and software engineering, came together to discuss and solve design problems through the innovative use of information technology and applications. The outputs of DESRIST, new and innovative constructs, models, methods, processes, and systems provide the basis for novel solutions to design problems in many fields. The conference further built on the foundation of ten prior highly successful international conferences held in Claremont, Pasadena, Atlanta, Philadelphia, St. Gallen, Milwaukee, Las Vegas, Helsinki, Miami, and Dublin.

The title of this volume is “Tackling Society’s Grand Challenges with Design Science.” Information systems continue to play increasingly important roles in our lives, in areas as diverse as social media, health care, and embedded technology. At the same time, society faces growing challenges, including demands on health-care systems, climate change, and security. Consequently, there is a need to address these topics in design research. The agenda of DESRIST 2016 reflected this approach. By accommodating a range of diverse design perspectives, the intent of the conference was to stimulate discussion and enable cross-discipline collaboration.

Overall we received 62 submissions (31 research manuscripts, 10 prototypes and products and 21 research-in-progress and poster papers) for review. Each research paper was reviewed by a minimum of two referees. For these proceedings, 11 full papers and two short papers were accepted, together with nine short papers describing prototypes and products. The accepted papers were distributed between ranges of diverse design perspectives. As in previous years, a substantial number of papers discussed methodological aspects of design science and described the application of design science research to real-world design problems.

We would like to thank the authors who submitted their papers to DESRIST 2016, and we trust that the readers will find them as interesting and informative as we did. We would like to thank the members of the Program Committee, as well as the additional reviewers who took the time to provide detailed and constructive reviews for the authors. We appreciate the efforts of the other members of the Organizing Committee, as well as the volunteers whose dedication and effort helped bring about another

successful conference. We would like to take this opportunity to thank Professors Alan Hevner and Samir Chatterjee for their encouragement and guidance, and Dr. Rob Gleasure, proceedings chair, without whom this volume would not have been possible. Furthermore, we thank the sponsoring organizations, in particular, Maynooth University, University of Jyväskylä, Claremont Graduate University, and Memorial University of Newfoundland, for their financial support.

We believe the papers in these proceedings provide several interesting and valuable insights into the theory and practice of design science, and they open up new and exciting possibilities for research in the discipline.

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