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In-Young Ko · Juan Manuel Murillo ·  
Petri Vuorimaa (Eds.)

# Current Trends in Web Engineering

ICWE 2020 International Workshops  
KDWEB, Sem4Tra, and WoT4H  
Helsinki, Finland, June 9–12, 2020  
Revised Selected Papers

*Editors*

In-Young Ko   
School of Computing  
Korea Advanced Institute of Science  
and Technology  
Daejeon, Korea (Republic of)

Juan Manuel Murillo   
Escuela Politécnica  
Universidad de Extremadura  
Cáceres, Spain

Petri Vuorimaa  
Department of Computer Science  
Aalto University  
Aalto, Finland

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# Preface

The International Conference on Web Engineering (ICWE) aims to promote research and scientific exchange related to Web engineering, and to bring together researchers and practitioners from various disciplines in academia and industry in order to tackle emerging challenges in the engineering of Web applications and associated technologies, as well as to assess the impact of those technologies on society, media, and culture.

This volume collects the papers presented at the workshops co-located with the 20th International Conference on Web Engineering (ICWE 2020), virtually held during June 9–12, 2020, in Helsinki, Finland. In the tradition of previous ICWE conferences, the workshops complemented the main conference, and provided a forum for researchers and practitioners to discuss emerging topics, both within the ICWE community and at the crossroads with other communities. As a result, we accepted the following three workshops, whose papers included in this volume underwent a rigorous peer-review process. Due to the COVID-19 pandemic, all three workshops were held together virtually on June 9, 2020.

- First International Workshop on the Web of Things for Humans (WoT4H 2020)
- Second Semantics and the Web for Transport Workshop (Sem4Tra 2020)
- 6th International Workshop on Knowledge Discovery on the Web (KDWEB 2020)

The objective of the WoT4H workshop was to provide a forum for academics, industrial researchers, developers, and practitioners to discuss the challenges and advances in Internet of Things (IoT) and W3C Web of Things (WoT). The WoT4H 2020 (four papers) was specially focused on improving the interoperability and adaptation of smart devices to humans.

Sem4Tra 2020 (three papers) was an opportunity for disseminating and discussing use cases and studies showing the application of semantic and Web technologies in the transport domain. The workshop especially focused on providing a traveler with all the services needed for a door-to-door travel under a single payment whilst integrating disparate modes of mobility under one travel experience.

Finally, the main goal of KDWEB 2020 (one paper) was to provide a venue to researchers, scientists, students, and practitioners involved in the fields of Knowledge Discovery on Data Mining, Information Retrieval, and Semantic Web, for presenting and discussing novel and emerging ideas.

We would like to thank all the workshop organizers for their excellent work in identifying cutting-edge and cross-disciplinary topics in the rapidly moving field of Web engineering, and organizing inspiring workshops around them. A word of thanks also to the reviewers, for their meticulous work in selecting the best papers to be

presented. Last, but not least, we would like to thank the authors who submitted their work to the workshops and all the participants who contributed to the success of these events.

June 2020

In-Young Ko  
Juan Manuel Murillo  
Petri Vuorimaa

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