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Takahiro Hara · Hirozumi Yamaguchi (Eds.)

Mobile and Ubiquitous Systems: Computing, Networking and Services

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Preface

We are delighted to introduce the proceedings of the eighteenth edition of the European Alliance for Innovation (EAI) International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2021). Despite the considerable research effort in the area of mobile and ubiquitous computing over nearly two decades, and the maturity of some of its base technologies, many challenges persist. The goal of this conference series is to provide a forum for presenting and discussing high-quality research in the field, involving international practitioners and researchers from diverse backgrounds. Areas addressed by MobiQuitous include systems, applications, social networks, middleware, networking, sensing, data management, data processing, and services, all with special focus on mobile and ubiquitous computing.

The technical program of Mobiquitous 2021 consisted of 26 full papers, selected from 79 submitted papers, in oral presentation sessions at the main conference track. The acceptance rate was 33%. Aside from the high-quality technical paper presentations, the technical program also featured two keynote speeches, one industrial session, one poster and demo session, and four technical workshops. The two keynote speeches were given by Chieko Asakawa (IBM Fellow/Chief Executive Director of the National Museum of Emerging Science and Innovation (Miraikan, Japan) and Claudio Bettini (University of Milan, Italy). The industrial session included two invited speeches by Chihiro Ono (KDDI Research, Inc., Japan) and Kota Tsubouchi (Yahoo! Japan Corporation, Japan). The poster and demo session consisted of 11 presentations.

The four workshops organized were the First Workshop on Ubiquitous and Multi-domain User Modeling (UMUM 2021), the First International Workshop on Smart Society Technologies (IWSST 2021), the Fourth International Workshop on Mobile Ubiquitous Systems, Infrastructures, Communications and AppLications (MUSICAL 2021 Fall) and the Workshop on Innovative Technologies for the Healthcare Empowerment (InnovTech4Health). The UMUM 2021 workshop aimed to address how to build ubiquitous and multi-domain user models and increase their applicability in real-world contexts. The IWSST 2021 workshop aimed to discuss technologies and applications that solve relevant problems in modern society. The MUSICAL 2021 Fall workshop aimed to discuss technologies related to future mobile ubiquitous systems. The InnovTech4Health workshop focused on the development of information and communication technologies for wellbeing.

Coordination with the steering chair, Imrich Chlamtac, was essential for the success of the conference. We sincerely appreciate his constant support and guidance. It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference. In particular, we are grateful to the Technical Program Committee who completed the peer-review process for technical papers and helped to put together a high-quality technical program. We are also grateful to the conference manager, Karolina Marcinova, for her support and

all the authors who submitted their papers to the MobiQuitous 2021 conference and workshops.

We strongly believe that MobiQuitous provides a good forum for all researchers, developers, and practitioners to discuss current and future research directions of mobile and ubiquitous computing. We also expect that the future MobiQuitous conferences will be as successful and stimulating as this year's, as indicated by the contributions presented in this volume.

November 2021

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Hirozumi Yamaguchi
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