Shuiguang Deng
Albert Zomaya
Ning Li (Eds.)

LNICST

434

Mobile Computing, Applications, and Services

LNICST

EAI

Springer

Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering 434

More information about this series at

Shuiguang Deng · Albert Zomaya ·
Ning Li (Eds.)

Mobile Computing, Applications, and Services

12th EAI International Conference, MobiCASE 2021
Virtual Event, November 13–14, 2021
Proceedings

② Springer

Editors
Shuiguang Deng
Zhejiang University
Hangzhou, China

Albert Zomaya
University of Sydney
Sydney, NSW, Australia

Ning Li
Beijing Information Science
and Technology University
Beijing, China

Preface

We are delighted to introduce the proceedings of the 12th European Alliance for Innovation (EAI) International Conference on Mobile Computing, Applications and Services (MobiCASE). This conference brought together researchers, developers, and practitioners around the world who are interested in mobile computing and leveraging or developing mobile services, applications, and technologies that improve the mobile ecosystem.

The technical program of MobiCASE 2021 consisted of nine full papers which were selected from 21 paper submissions. The conference tracks were as follows: Track 1 - Mobile Application and Deep Learning and Track 2 - Mobile Application with Data Analysis. Aside from the high-quality technical paper presentations, the technical program also featured a keynote speech about "Online Intelligence at Edge: Theory and Implementation" given by Haisheng Tan from the University of Science and Technology of China.

Coordination with the steering chair, Imrich Chlamtac, and steering committee members was essential for the success of the conference. We sincerely appreciate their 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 the technical papers and helped to put together a high-quality technical program. We are also grateful to Conference Manager Lucia Sladeckova for her support and all the authors who submitted their papers to the MobiCASE 2021 conference.

We strongly believe that the MobiCASE conference provides a good forum for all researchers, developers, and practitioners to discuss all science and technology aspects that are relevant to mobile computing, applications, and services. We also expect that the future MobiCASE conferences will be as successful and stimulating as this year's, as indicated by the contributions presented in this volume.

November 2021

Shuiguang Deng
Albert Zomaya
Ning Li
Javid Taheri
Shangguang Wang
Honghao Gao
Jun Yu

Organization

Steering Committee

Chair

Imrich Chlamtac   University of Trento, Italy

Members

Thomas Phan   Cruise, USA
Petros Zerfos   IBM Research, USA

Organizing Committee

General Chairs

Shuiguang Deng   Zhejiang University, China
Albert Zomaya   University of Sydney, Australia
Ning Li   Beijing Information Science and Technology
                                University, China

Technical Program Committee Chairs

Javid Taheri   Karlstad University, Sweden
Shangguang Wang   Beijing University of Posts and Telecommunications,
                                China
Honghao Gao   Shanghai University, China
Jun Yu   Hangzhou Dianzi University, China

Local Chairs

Yuyu Yin   Hangzhou Dianzi University, China
You Xindong   Beijing Information Science and Technology
                                University, China

Workshops Chairs

Yuyu Yin   Hangzhou Dianzi University, China
Ramón J. Durán Barroso   Universidad de Valladolid, Spain

Publicity and Social Media Chair

Hongyue Wu   Tianjin University, China

Sponsorship and Exhibits Chair

Honghao Gao   Shanghai University, China

Publications Chair

Youhuizi Li   Hangzhou Dianzi University, China

Web Chair

Zhengzhe Xiang   Zhejiang University, China

Conference Manager

Barbora Cintava   EAI, Slovakia

Technical Program Committee

Bin Cao   Zhejiang University of Technology, China
Buqing Cao   Hunan University of Science and Technology, China
Congfeng Jiang   Hangzhou Dianzi University, China
Dongjing Wang   Hangzhou Dianzi University, China
Yucong Duan   Hainan University, China
Guobing Zou   Shanghai University, China
Jiwei Huang   Beijing University of Posts and Telecommunications,
                                 China
Youhuizi Li   Hangzhou Dianzi University, China
Junhao Wen   Chongqing University, China
Jian Wang   Wuhan University, China
Yanmei Zhang   Central University of Finance and Economics, China
Jiuyun Xu   China University of Petroleum, China
Li Kuang   Central South University, China
Shunmei Meng   Nanjing University of Science and Technology, China
Kai Peng   Beijing University of Posts and Telecommunications,
                                 China
Shizhan Chen   Tianjin University, China
Xiaobing Sun   Yangzhou University, China
Yunni Xia   Chongqing University, China
Xiaolong Xu   Nanjing University of Science and Technology, China
Yihai Chen   Shanghai University, China
Yuyu Yin   Hangzhou Dianzi University, China
Yiping Wen   Hunan University of Science and Technology, China
Yueshen Xu   Xidian University, China
Yutao Ma   Wuhan University, China
Jun Zeng   Chongqing University, China
Yiwen Zhang   Anhui University, China
Zijian Zhang   Beijing Institute of Technology, China
Zhongqin Bi   Shanghai University of Electric Power, China
Wang Haiyan   Nanjing University of Posts and Telecommunications,
                                 China
Luiz F. Bittencourt   University of Campinas, Brazil
Abid Hussain   Career Point University, India

Armando Ruggeri	University of Messina, Italy
Javid Taheri	Karlstad University, Sweden
Antonino Galletta	University of Messina, Italy
Massimo Villari	University of Messina, Italy
Eirini Eleni Tsiropoulou	University of New Mexico, USA
Edelberto Franco	Federal University of Juiz de Fora, Brazil
Mario Colosi	University of Messina, Italy
Christian Sicari	University of Insubria, Italy
Giuseppe Di Modica	University of Bologna, Italy
Auday Al-Dulaimy	Malardalen University, Sweden

Contents