

Message from the General Co-chairs

MDM 2015

Welcome to the 16th IEEE International Conference on Mobile Data Management (MDM 2015) held in Pittsburgh, PA, USA from June 15 to 18, 2015.

Since its start in 1999, the MDM conference series has established itself as a reputable forum for the sharing of original research advances and practical experiences on the management and use of mobile data. In the context of MDM, the term “mobile” is used broadly to include all aspects of mobility, including aspects related to wireless communications, portable and tiny devices, and geo-location of users and data. This year’s MDM also covers these aspects and further covers aspects of research areas such as the Internet of Things, big data, cyber-physical systems, quantified self, and smart cities.

MDM has been an IEEE Computer Society conference, sponsored by the Technical Committee on Data Engineering (TCDE), since 2011. Prior to 2011, some MDM conferences were organized with IEEE in-cooperation status, and the IEEE has published the MDM proceedings since 2006. We would like to thank the TCDE leadership for its continued support of the MDM. This year’s MDM was also sponsored by the University of Pittsburgh and the U.S. National Science Foundation. We would like to thank HP Vertica for sponsoring the best papers and demos awards. We are grateful for this support.

MDM 2015 continued the tradition of a strong, largely single track, technical program. In addition to the presentations of full and short research papers, industrial papers, and demos, the program features three keynote lectures: Mobile Data Management in Large Healthcare Applications by Daniel P. Siewiorek from Carnegie Mellon University, USA; Always Fleeting: Indexing Moving Objects by Simonas Saltenis from Aalborg University, Denmark; and Living on the Edge...with only Clouds to fall back on by Phillip B. Gibbons from Intel Labs, USA. The program also includes a panel Mobility and Big Data: adding an M to the Vs, or not? Organized by Evaggelia Pitoura and Panos K. Chrysanthis.

The program also features advanced seminars by Mohamed Ali, Ahmed Eldawy, Dimitrios Georgakopoulos, Abdeltawab M. Hendawi, Christos Laoudias, Mohamed F. Mokbel, Arkady Zaslavsky, and Demetris Zeinalipour-Yazti. In four seminars, these speakers cover topics such as big spatial data, data management in indoor spaces, predictive spatial queries, and the Internet of Things.

MDM 2015 further includes two one-day workshops and a Ph.D. forum.

Many individuals contributed to making MDM 2015 a success.

We thank the authors who submitted papers and the members of the research and industrial program committees along with the external reviewers they enlisted. They enabled the assembly of an exciting core technical program. We also thank the conferences participants, who shared their insights and created a friendly and rewarding atmosphere.

The processes that made the conference possible and led to the rich technical program highlighted above were orchestrated by a sizable team of dedicated individuals: the research program committee co-chairs, Sanjay Madria (Missouri University of Science and Technology, USA), Evaggelia Pitoura (University of Ioannina, Greece), and Baihua Zheng (Singapore Management University, Singapore); the workshop co-chairs, Wang-Chien Lee (Pennsylvania State University, USA) and Demetris Zeinalipour-Yazti (University of Cyprus, Cyprus); the HuMoComp workshop organizers, Adam J. Lee (University of Pittsburgh, USA), Konstantinos Pelechrinis

(University of Pittsburgh, USA), Manolis Terrovitis (Research Center Athena, Greece), and Demetris Zeinalipour-Yazti (University of Cyprus, Cyprus) ; the MobiSocial workshop organizers, De-Nian Yang (Academia Sinica, Taiwan) and Wang-Chien Lee (Pennsylvania State University); the industrial co-chairs, Hui Lei (IBM, USA) and Mario Nascimento (University of Alberta, Canada); the demo co-chairs, Takahiro Hara (Osaka University, Japan) and Adam Lee (University of Pittsburgh); the panel co-chairs, George Samaras (University of Cyprus) and Taieb Znati (University of Pittsburgh, USA) the advanced seminars co-chairs, Vladimir Oleshchuk (University of Agder, Norway) and Goce Trajcevski (Northwestern University, USA); the Ph.D. colloquium co-chairs, Alex Delis (University of Athens) and Vijay Kumar (Missouri University of Science and Technology, USA); the keynote co-chairs, Asim Smailagic (Carnegie Mellon University, USA) and Arkady Zaslavsky (CISRO, Australia); the sponsorship chair, Le Gruenwald (University of Oklahoma, USA); the finance chair, James Joshi (University of Pittsburgh, USA), the local arrangements chair, Kostas Pelechrinis (University of Pittsburgh, USA); the steering committee liaison, Panos K. Chrysanthis (University of Pittsburgh, USA); the publicity chair, Sriram Chellappan (Missouri University of Science and Technology, USA); the proceedings chair Chi-Yin Chow (City University of Hong Kong, Hong Kong); and the conference webmaster, Evgeny Karataev (University of Pittsburgh, USA).

All these individuals donated their time and expertise to making MDM 2015 an exciting conference, and they deserve recognition for their efforts and service to the scientific community.

We hope that you enjoyed MDM 2015.

Christian S. Jensen, *Aalborg University, Denmark*

Xing Xie, *Microsoft Research, China*

Vladimir I. Zadorozhny, *University of Pittsburgh, USA*

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