MobiGIS 2016 Workshop Report The Fifth ACM SIGSPATIAL International Workshop on Mobile Geographic Information Systems San Francisco, California, USA - October 31, 2016

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Combining the functionality of mobile devices (smartphones and tablets), wireless communication (Wi-Fi, Bluetooth and 3/4G), and positioning technologies (GPS, Assisted GPS and GLONASS) results in a new era of mobile geographic information systems (GIS) that aim at providing various invaluable services, including location-based services, intelligent transportation systems, logistics management, security and safety, etc. Many mobile GIS applications have been developed to solve challenging real-world problems and improve our quality of life.

MobiGIS 2016 (http://www.mobigis.org) was held in conjunction with the 24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (SIGSPATIAL 2016) on October 31, 2016 in San Francisco, California, USA. It aims at bringing together researchers and practitioners from the GIS community, the mobile computing community, and the data management community. Many current research areas, such as spatio-temporal databases, spatio-temporal data mining, mobile cloud computing, remote sensing, participatory sensing, or social networks, raise research problems that lie at the boundary between these three communities. MobiGIS's goal is to foster an opportunity for researchers from these three communities to gather and discuss ideas that will shape and influence these emerging GIS-related research areas.

MobiGIS 2016 has accepted 11 research papers for oral presentations (30 minutes for each full paper and 20 minutes for each short paper). MobiGIS 2016 was a one-day workshop consisting of four sessions: (1) Trajectory Computing, (2) Keynote and Location-based Query Processing, (3) Mobile Data Analytics, and (4) Urban Computing, Mapping, and Positioning. We would like to express our special thanks to the keynote speaker, Prof. Maria Luisa Damiani (University of Milan, Italy), who gave a very interesting and inspiring talk "Spatial Trajectories Segmentation: Trends and Challenges".

We would also like to thank the authors for publishing and presenting their papers in MobiGIS 2016, and the program committee members and external reviewers for their professional evaluation and help in the paper review process. We hope that the proceedings of MobiGIS 2016 will inspire new research ideas, and that you will enjoy reading them.