IWCTS 2015 Workshop Report
The Eighth ACM SIGSPATIAL International Workshop on International Workshop on Computational Transportation Science
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In the near future, vehicles, travelers, and the infrastructure will collectively have billions of sensors that can communicate with each other. Transportation systems, due to their distributed/mobile nature, can become the ultimate test-bed for a ubiquitous (i.e., embedded, highly-distributed, and sensor-laden) computing environment of unprecedented scale. This environment will enable numerous novel applications and order of magnitude improvement of the performance of existing applications. Information technology is the foundation for implementing new strategies, particularly if they are to be made available in real-time to wireless devices in vehicles or in the hands of people. Contributing are increasingly more sophisticated geospatial and spatio-temporal information management capabilities. Human factors, technology adoption and use, user feedback and incentives for collaborative behaviour are areas of technology policy central to the success of this ubiquitous computing environment.

International Workshop on Computational Transportation Science (IWCTS) 2015 (http:// eecs.northwestern.edu/ xinchen/iwcts2015/) was held in conjunction with the 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (SIGSPATIAL 2015) on November 3, 2015 in Seattle, Washington, USA. IWCTS is particularly timely given the prominence of self-driving technologies in the global auto industrys near-term growth strategies. We will build upon the success of previous workshops to continue to focus on computation, knowledge discovery, and technology aspects of transportation systems while welcoming research papers in computer science, transportation science, urban and regional planning, the automotive arena, civil engineering, robotics, geography, geoinformatics, and other related disciplines.

IWCTS 2015 has received 14 submissions in which 7 research papers were accepted as full research papers and for presentations (20 minutes for each paper). We would like to thank the authors for publishing and presenting their papers in IWCTS 2015, and the program committee members for their professional evaluation and help in the paper review process. We would also like to give very special thanks to our session keynote speakers Mr. Mark Hallenbeck (Director, TRAC - University of Washington) and Prof. Stephan Winter (Spatial Information Science at the Department of Infrastructure Engineering, University of Melbourne). We hope that the proceedings of IWCTS 2015 will inspire new research ideas, and that you will enjoy reading them.