



**Proceedings of the 3rd ACM SIGSPATIAL
International Workshop on
Crowdsourced and Volunteered Geographic Information**
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Foreword

In these proceedings, you will find the papers that have been accepted for publication for the *Third ACM SIGSPATIAL International Workshop on Crowdsourced and Volunteered Geographic Information*, also known as GeoCrowd 2014. The workshop, on November 4th 2014, has been organized in conjunction with the 22nd CM SIGSPATIAL International Conference on Advances in Geographic Information Systems, which was held from November 5th to November 7th, 2014, at the Renaissance Dallas Hotel, in Dallas, Texas.

Only a few decades ago, professional surveyors were the only collectors of geospatially explicit data corpora, making use of standardized protocols, sampling schemes and related equipment. The thorough preparation of their data collection processes led to generally well-understood data outcomes, fit for the (often single) purpose of collection. In our day and age, the mobile revolution has equipped many to act as amateur surveyors, and the excitement of this obtained capability has awoken some of our deepest hunter/gatherer aptitudes. The resulting crowdsourced and volunteered geographic information brings data sources that were previously almost impossible to obtain: in volume, in coverage, or in space/time density. But such data also commonly suffers from high levels of bias and error, which are hard to tackle with well-known, classical techniques. In part, this is because of lack of standards and protocols, and in part because of a lack of accompanying analytical machinery.

The aim of the series of GeoCrowd workshops is to regularly bring together the research community that addresses this lack of standards, protocols, and analysis techniques around these novel geographic information sources. The workshops should allow the exchange of new results, as well as the discussion of remaining and emerging research and development challenges.

We believe that the 2014 program is another testimony of the advancements that are shaping in our field, and that the research work reported in the papers is a demonstration of the width of the domain, as well as of the variety of techniques and methods that are currently being developed in our community.

Our thanks go to all authors who submitted papers for review, and to the Program Committee members who were so willing to take on the reviewing process. We also thank the General and Program Committee Chairs of ACM SIGSPATIAL 2014, and especially its Workshop Chairs Mohamed Mokbel and Egemen Tanin, for their support throughout the period of preparation. The sponsors of the conference deserve our explicit gratitude as well. Finally, GeoCrowd's Steering Committee, in the persons of Dieter Pfoser, Timos Sellis and Agnès Voisard, has been wonderfully supportive throughout the process of workshop preparation.

We hope that these proceedings find their way well into the research community, that they inspire new efforts in our scientific domain, and that the results published here serve our community in the best possible ways.

Rolf A. de By & Carola Wenk
Chairs GeoCrowd 2014

GEOCROWD 2014

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