HealthGIS 2014

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Third ACM SIGSPATIAL International Workshop on the Use of GIS in Public Health
In conjunction with the 22nd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems

Proceedings of the 3rd ACM SIGSPATIAL International Workshop on the Use of GIS in Public Health (HealthGIS)
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Editors
Daniel W. Goldberg, Texas A&M University
Ori Gudes, Curtin University, Department of Spatial Sciences
Yaron Kanza, Jacobs Technion-Cornell Innovation Institute, Cornell Tech

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FOREWORD

These proceedings contain the papers selected for presentation at the third edition of the ACM Workshop on the Use of GIS in Public Health (HealthGIS 2014), which is being held in conjunction with the ACM SIGSPATIAL GIS conference.

Public health and public healthcare are important social issues with deep implications for government administrations and with large effect on individual standards of living. In many countries, healthcare institutions are being pushed to their limit by an aging population and increased urbanization (which may lead to additional health issues such as pollution). Many of these challenges have strong geospatial components. For example, GIS techniques may be used to determine spatial correlates of health. In addition, the ability to detect and record the location history of individuals and groups using cellular phones coupled with the ability to analyze and visually present large amounts of geospatial data can be harnessed to advance health-related applications. Other notable examples include using geographic information systems and appropriate applications to assist the evacuation of injured people, monitoring the spread of infectious diseases, collecting data for statistical analysis of the effect of pollution on public health, and providing assistance to elderly people with orientation difficulties. These applications necessitate new techniques, systems, and algorithms to effectively utilize geospatial data in the context of public health. This workshop aims to deliver cutting edge research in the emerging field of health and GIS. The program of the workshop is organized in four sessions: (1) A research session on Guidance and Assistance Applications, (2) A research session on Mapping and Tracking Diseases, (3) An invited talk and a panel of experts on two selected topics, and (4) A research session about Geographical Analysis and Monitoring of Health Data.

We would like to thank the many people who contributed to the HealthGIS 2014. We thank the authors for providing the content of the program and the program committee for the evaluation process. We would also like to thank the organization committee of ACM GIS 2014 for the help with the workshop planning.

We hope that these proceedings will inspire new research ideas in the field of GIS and Health, and that you will serve as a valuable resource for the community.

Daniel W. Goldberg
Ori Gudes
and
Yaron Kanza

HealthGIS 2014 Program Chairs
HealthGIS 2014 ORGANIZATION

Program Chairs
Daniel W. Goldberg, Texas A&M University, USA
Ori Gudes, Curtin University, Australia
Yaron Kanza, Jacobs Technion-Cornell Innovation Institute, Cornell Tech, USA

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