The SIGSPATIAL Special

The SIGSPATIAL Special is the newsletter of the Association for Computing Machinery (ACM) Special Interest Group on Spatial Information (SIGSPATIAL).

ACM SIGSPATIAL addresses issues related to the acquisition, management, and processing of spatially-related information with a focus on algorithmic, geometric, and visual considerations. The scope includes, but is not limited to, geographic information systems.

Current Elected ACM SIGSPATIAL officers are:

- Chair, Shawn Newsam, University of California, Merced, USA
- Past Chair, Cyrus Shahabi, University of Southern California, USA
- Vice-Chair, Egemen Tanin, University of Melbourne, Australia
- Secretary, John Krumm, Microsoft Research, USA
- Treasurer, Maria Luisa Damiani, University of Milan, Italy

Current Appointed ACM SIGSPATIAL officers are:

- Newsletter Editor, Martin Werner, Technical University of Munich, Germany
- Webmaster, Xueqing Deng, University of California, Merced, USA

For more details and membership information for ACM SIGSPATIAL as well as for accessing the newsletters please visit http://www.sigspatial.org.

The SIGSPATIAL Special serves the community by publishing short contributions such as SIGSPATIAL conferences' highlights, calls and announcements for conferences and journals that are of interest to the community, as well as short technical notes on current topics. The newsletter has three issues every year, i.e., March, July, and November. For more detailed information regarding the newsletter or suggestions please contact the editor via email at martin.werner@tum.de.

Notice to contributing authors to The SIGSPATIAL Special: By submitting your article for distribution in this publication, you hereby grant to ACM the following non-exclusive, perpetual, worldwide rights:

- to publish in print on condition of acceptance by the editor,
- to digitize and post your article in the electronic version of this publication,
- to include the article in the ACM Digital Library,
- to allow users to copy and distribute the article for noncommercial, educational or research purposes.

However, as a contributing author, you retain copyright to your article and ACM will make every effort to refer requests for commercial use directly to you.

Notice to the readers: Opinions expressed in articles and letters are those of the author(s) and do not necessarily express the opinions of the ACM, SIGSPATIAL or the newsletter.

The SIGSPATIAL Special (ISSN 1946-7729) Volume 12, Number 3, November 2020.

Table of Contents

	Page
Message from the Editor	1
Section 1: ACM SIGSPATIAL 2020 Conference Report	
The 28th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2020)	
Virtual, Online, USA, November 3-6, 2020	3
Section 2: ACM SIGSPATIAL 2020 Workshop Reports	
4th ACM SIGSPATIAL Workshop on Location-Based Recommendations, Geosocial Networks, and Geoadvertising (LocalRec 2020)	7
3rd ACM SIGSPATIAL International Workshop on GeoSpatial Simulation (GeoSim 2020)	11
9th ACM SIGSPATIAL International Workshop on Analytics for Big Geospatial Data (BIGSPATIAL 2020)	15
4th ACM SIGSPATIAL Workshop on Geospatial Humanities (GeoHumanities 2020)	17
2nd ACM SIGSPATIAL International Workshop on Geospatial Data Access and Processing APIs (SpatialAPI 2020). Ahmed Eldawy, Gobe Hobona	20
3rd ACM SIGSPATIAL Workshop on Advances in Resilient and Intelligent Cities (ARIC 2020)	23
Bandana Kar, Xinyue Ye, Shima Mohebbi, Guangtao Fu	
13th International Workshop on Computational Transportation Science (IWCTS 2020)	26
Kuldeep Kurte, Anne Berres, Srinath Ravulaparthy, Jibonananda Sanyal, Gautam Thakur	

2nd ACM SIGSPATIAL International Workshop on Spatial Gems	22
(SpatialGems 2020)	32
1st ACM SIGSPATIAL International Workshop on Modeling and Understanding the Spread of COVID-19	35
Taylor Anderson, Jia Yu, Andreas Züfle	33
6 th ACM SIGSPATIAL International Workshop Emergency Management using GIS (EM-GIS 2020)	41
5 th ACM SIGSPATIAL International Workshop Emergency Management using GIS (EM-GIS 2019)	43
Hui Zhang, Yan Huang, Jean-Claude Thill, Danhuai Guo, Yi Liu, Bin Chen, Wei Xu	
Section 3: ACM SIGSPATIAL 2020 Students Research Competition: Grand Finalists	
Efficient Downscaling of Satellite Oceanographic Data With Convolutional Neural Networks	47
Nikita Saxena	7