



# Call for papers

ACM SIGSPATIAL 2018 Workshop

## The 4th ACM SIGSPATIAL International Workshop on Safety and Resilience 2018

### Topics of Interest

- Geoinformatics studies and applications associated with safety and resilience
- Research related to new technologies in GIS, data integration, model integration, disaster detection, response and rescue

### Important Dates

- Full paper due: **September 15, 2018**
- Author Notification: **September 28, 2018**
- Camera-Ready deadline: **October 7, 2018**
- Conference Information: **Seattle, November 3, 2018**

### Co-Chair

- **Danhui Guo** *Email: guodanhui@cnic.cn*  
Computer Network Information Center  
Chinese Academy of Sciences (CNIC,CAS)
- **Yi Liu** *Email: liuyi@tsinghua.edu.cn*  
Institute of Public Safety Research, Tsinghua University,  
CHINA
- **Bin Chen** *Email: nudtcb9372@gmail.com*  
College of System Engineering, National University of De-  
fense Technology, China
- **Wei Xu** *Email: weixu@ruc.edu.cn*  
Renmin University of China

### General Chair

- **Hui Zhang**, Tsinghua University, China, zhhui@mail.tsinghua.edu.cn
- **Yan Huang**, University of North Texas, USA, huangyan@unt.edu
- **Jean-Claude Thill**, University of North Carolina at Charlotte, USA, Jean-Claude.Thill@uncc.edu

## WE WELCOME PAPERS THAT ADDRESS FUNDAMENTAL RESEARCH ISSUES IN THESE TOPICS OF INTEREST INCLUDE, BUT ARE NOT LIMITED TO:

- Spatial data and models for safety and resilience
- Data integration in safety and resilience
- Model integration in safety and resilience
- Geospatial data mining applications in safety and resilience
- Decision support based on GIS for safety and resilience
- Statistical analysis on massive spatio-temporal data for safety and resilience
- Spatial data analytics in safety and resilience
- Spatial agent-based modeling for safety and resilience
- Event detection techniques based on GIS in safety and resilience
- Opinion mining and sentiment analysis based on GIS for safety and resilience
- Prediction and decision based on GIS in safety and resilience
- Location based rescue resource management in safety and resilience
- Resource planning and scheduling base on GIS
- Cloud computing based on GIS in safety and resilience
- Web spatial data analysis in safety and resilience
- Web spatial data processing in safety and resilience
- Web of things based on GIS in safety and resilience
- Spatiotemporal intelligence for spontaneous planning
- Blockchain Applications in Safety and Resilience

## We invite two types of submissions in the workshop:

- **Long paper:** presenting completed work including a complete description of methods, results and validation (4,000-6,000 words references included, 6 pages at most)
- **Short paper:** presenting work in earlier stages, outlining and discussing concepts and methods and presenting first results (2,000-3,500 words references included, 4 pages at most)

## Selected paper will be recommended to publish in:

- Geoinformatica (SCI indexed journal)
- TSINGHUA Science and Technology (SCI indexed journal)
- Journal of Safety Science and Resilience

## About Us

The purpose of the EM-GIS 2018 workshop is to address the challenges of emergency management based on advanced GIS technologies and will bring together researchers and practitioners in massive spatio-temporal data management, spatial database, spatial data analysis, spatial data visualization, data integration, model integration, cloud computing, parallel algorithms, internet of things, complex event detection, optimization theory, intelligent transportation systems and social networks to support better public policy through disaster detection, response and rescue.

## Why Join Us

### Publications:

All accepted papers will be embodied in ACM SIGSPATIAL proceeding. All accepted papers will be recommended to Data Science Journal (<https://data-science.codata.org/>)

and Journal of Safety Science and Management. The authors should be responsible for the possible additional journal publication fee.

### Award:

The workshop will offer two Best Paper awards. Each winner will be awarded a certificate with signatures of the workshop co-chairs.

## What You Should Notice

Manuscripts should be submitted in PDF format according to the ACM camera-ready templates available at <http://www.acm.org/publications/proceedings-template>.

Papers must be electronically submitted at the following address:

<https://easychair.org/conferences/?conf=emgis2018>.

Each paper will be reviewed by at least 3 referees. The workshop proceedings will also be part of the ACM Digital Library. At least one of the authors per accepted workshop paper should register for both the main SIGSPATIAL conference and the workshop, and present the paper in the workshop in order to have the paper included in the workshop proceedings.

## Program Committee

- Rick Church, UC Santa Barbara, USA
- Tom Cova, University of Utah, USA
- Susan Cutter, University of South Carolina, USA
- Zhiming Ding, Beijing University of Technology, China
- Yong Ge, University of Arizona, USA
- Jeng-Neng Hwang, University of Washington, USA
- Jianping Fang, University of North Carolina at Charlotte, USA
- Foluso Ladeinde, SUNU Korea
- Kuien Liu, Alibaba Inc, China
- Yi Liu, Institute of Public Safety Research, Tsinghua University, China
- Feng Lu, Institute of Geographic Science and Natural Resources Research, Chinese Academy of Sciences
- Ricardo J. Soares Magalhaes, University of Queensland, Australia
- Alan Murray, Drexel University, USA
- Yasuhide Okuyama, University of Kitakyushu, Japan
- Xiaogang Qiu, National University of Defense Technology, China
- Xing Xie, Microsoft Research Asia
- Rui Yang, Institute of Public Safety Research, Tsinghua University, China
- Chaowei Phil Yang, George Mason University, USA
- Wenwu Yin, China CDC, USAC
- Dajun Zeng, Institute of Automation, Chinese Academy of Sciences
- Hengshu Zhu, Baidu Inc., China
- Dr. Arnold M. Howitt, Co-Director of the Program on Crisis Leadership (PCL), John F. Kennedy School of Government, Harvard University