

# GeoRich'2020: Call for Submissions

## The Sixth International ACM Workshop on Enriched Geo-Spatial Data

Panagiotis Bouros<sup>1</sup>, Amr Magdy<sup>2</sup>, Matthias Renz<sup>3</sup>, Mohamed Sarwat<sup>4</sup>, Andreas Züfle<sup>5</sup>  
<sup>1</sup>Johannes Gutenberg University Mainz, Germany, <sup>2</sup>University of California, Riverside, USA  
<sup>3</sup>University of Kiel, Germany, <sup>4</sup> Arizona State University, USA, <sup>5</sup> George Mason University  
bouros@uni-mainz.de, amr@cs.ucr.edu, mr@informatik.uni-kiel.de,  
msarwat@asu.edu, azuffle@gmu.edu

### 1 The Vision of GeoRich: Reaching the Database Community

Spatial and spatio-temporal data management has traditionally been a core topic of the database community. Until 2018, database conferences such as the ACM International Conference on Management of Data (SIGMOD), as well as the International Conference on Very Large Data Bases (VLDB) always had at least one research session on spatial data:

- SIGMOD 2016 (One Sessions): Session 11 (Spatio/Temporal Databases),
- SIGMOD 2017 (Two Sessions): Session 24 & 29 (Spatial and Multimedia Data (1 & 2)),
- SIGMOD 2018 (One Session): Research Session 8 (Spatial Data & Streams)
- VLDB 2016 (Two Sessions): Research 11 & 20 (Spatial Data and Queries 1 & 2),
- VLDB 2017 (Three Sessions): Spatial Data Management 1-3 (No Session Numbers)
- VLDB 2018 (One Session): Research Session: Spatial Data

Yet, in the last year, we have seen a rapid decline in interest of the database community in topics related to spatial data. This is evident by the number of research sessions at these conferences in 2019:

- SIGMOD 2019(No Session):  $\emptyset$ ,
- VLDB 2019 (One Sessions): Research Session 25: Spatial Data

We see that the number of spatial data related research sessions across SIGMOD and VLDB has declined from five sessions in 2017 to only one session in 2019. While this decline is due to the proliferation of SIGSPATIAL as the flagship spatial data conference, this trend isolates us from the database community. This trend reduces the visibility of our research to the SIGMOD community and lowers exposure of our work. It also disrupts valuable cross-disciplinary research between the SIGMOD and the SIGSPATIAL community, by no longer bringing these communities together. To stop this trend, we decided to reboot the SIGMOD@GeoRich workshop on Enriched Geo-Spatial Data, which has been organized as a SIGMOD satellite workshop from 2014-2018, but which was not organized last year in 2019. The goal of this workshop is to bring together and provide a forum for the SIGSPATIAL and the SIGMOD community to discuss topics relevant to spatial data management.

**This is a call for the SIGSPATIAL Community to continue outreach and exposure to the database community. Please consider submitting your work to GeoRich'2020!**

## 2 GeoRich'2020: Call for Papers

The aim of this workshop is to provide a unique forum for discussing in depth the challenges, opportunities, novel techniques and applications on modeling, managing, searching and mining rich geo-spatial data, in order to fuel scientific research on big spatial data applications beyond the current research frontiers. The workshop is intended to bring together researchers from different fields of databases, data-science and geo-science that deal with the management of spatial and spatio-temporal data, social network data, textual data, multimedia data, semantic data and ontologies, uncertain data and other common types of geo-referenced data. In particular, submissions covering topics from the following non-exclusive list in the context of enriched geo-spatial data are encouraged: The topics of interest are related to semantically enriched geo data, such as spatio-textual, spatio-temporal, spatio-social, geo-social network, mobile and wireless data and uncertain data are not limited to:

- Big Spatial Data
- Data-mining and machine learning on enriched geo data
- Data stream management and mobile computing
- Exploratory geospatial analysis
- Geoinformation Systems (GIS)
- Geospatial data fusion
- Leveraging spatial data for smart cities
- Privacy and confidentiality
- Machine learning and artificial intelligence using spatial data
- Managing uncertainty in spatial data
- Managing crowd-sourced spatial data
- Spatial and spatio-temporal data management
- Spatial crowdsourcing
- Spatial econometrics
- Spatial data models and representation
- Spatial query processing and optimization
- Spatial reasoning and analysis
- Spatial recommendation
- Spatial statistical analysis
- Urban analytics and smart transportation

The workshop will be organized in a manner that fosters interaction and exchange of ideas among the participants. Besides paper presentations, time will be allocated to open discussion forums, poster presentations, informal discussions or panels. In addition to regular papers, vision or work-in-progress papers that have the potential to stimulate debate on existing solutions or open challenges are especially encouraged. Proposals for panels on newly-emerging or controversial topics are also especially welcome.

## 3 Important Dates & Submission Instructions

Abstract Registration:	Sunday, March 15th, 2020 (midnight AoE)
Paper Submission:	Sunday, March 22th, 2020 (midnight AoE)
Notification of acceptance:	Sunday, April 26th, 2020 (midnight AoE)
Camera-ready version due:	Sunday, May 9th, 2020 (midnight AoE)
Workshop date:	Sunday, June 14th, 2020 (midnight AoE)

Authors are invited to submit original, unpublished research papers that are not being considered for publication in any other forum. Manuscripts should be submitted electronically as PDF files and be formatted using the ACM templates. Papers cannot exceed six pages in length including all references and appendices. All papers must be submitted through the submission website hosted on EasyChair.

Accepted papers will be included in the informal proceedings to be distributed at the workshop, and will be available on the workshop's Web site. Additionally, the accepted papers will be published online in the ACM digital library. The papers must include the standard ACM copyright notice on the first page. Additional details and instructions can be found on the conference website at:

<https://georich2020.github.io/>