

BIGQP'17 Final Call for Papers - Deadline Extension 30/11/2016

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1st International Workshop on Big Geo Data Quality and Privacy (BIGQP 2017)
March 21, 2017 - Venice, Italy
<http://www-etis.ensea.fr/BigGeoQ-UP/BIGQP2017>

Co-located with EDBT/ICDT 2017 Joint Conference
March 21-24, 2017 - Venice, Italy
<http://edbticdt2017.unive.it/>
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WORKSHOP DESCRIPTION

Big Geo Data are becoming a significant part of the data production that occurs today at a global scale. They are to a big extent crowdsourced by users who do not follow a well-documented ("scientific") method that ensures data quality, either because they do not know or do not care about the issue. This kind of data usually contain references to locations, i.e., Points of Interest (POIs), and become accessible in general social media (e.g., Facebook, Google+) or in specialized platforms (e.g., Open Street Maps, Yelp). Location information could be either extracted by personal assistants (e.g., Google Now) or social platforms (e.g., Facebook, Twitter) in terms of places visited, trajectories pursuit or mentioned by the users, along with their social posts. Information extraction techniques enable us to analyze a wealth of geospatial and temporal information available in social posts such as spatial objects and the way they are spatially, temporally and/or semantically related (e.g., north, in-between, during, same-as). Spatial objects may refer to precise and/or imprecise geographical objects (e.g., POIs, toponyms, and vernacular names), as well as to implicit spatial objects identified by means of textual descriptions (for instance, the following user post could identify a part of a certain road at the point of publication: "traffic jam between POI 'A' to POI 'B'"). The quality of crowdsourced geo data might vary depending on the origin (machine vs human generated), the level of detail of the extraction techniques, as well as the obfuscation techniques used by the persons themselves or the social media platforms to protect their privacy. Another aspect of quality is associated with the credibility of the extracted information with respect to one's location or time of publication (e.g., user post mentioning an event just after it has happened although the user's and event's locations are spatially unrelated).

The quality (e.g., precision, accuracy, consistency) of geospatial information can be improved when personal data are integrated from several data sources (social networks, geographical authorities). On the other hand, the combination of such personal data might reveal sensitive information regarding users' location and might put users' location privacy (also known as geoprivacy) at risk. As a matter of fact, location information is inextricably linked to personal safety. Unrestricted access to information about an individual's location could potentially lead to harmful encounters, for example stalking or physical attacks. Moreover, location constrains our access to spatiotemporal resources, like meetings, medical facilities, our homes, or even crime scenes. Hence, it can be used to infer other personal sensitive information, such as an individual's political views, state of health, or personal preferences. Understanding the different aspects of geographic/geometric/geospatial quality involved in crowdsourced geo data and evaluate the privacy risks introduced by enhancing their quality in personal, social and urban applications is a challenging topic.

The BIGQP workshop aims to be a premier venue in gathering computer science and geoscience researchers who are contributing to and are interested in both Data

Quality and Privacy of Big Geo Data. Hence, it is a unique opportunity to find in a single place up-to-date scientific works on both subjects that have so far only partially been addressed by different research communities such as Data Quality Management, Distributed and Mobile Systems, and Big Data Privacy.

Topics of interest include, but are not limited to:

- * Quality of online location data
- * Extraction of spatial relations in Big Data
- * Extraction of spatial objects from textual Big Data
- * Quality metrics of Big Geo Data
- * Geo entities resolution and linking
- * Geo data inconsistency detection and repairing
- * Geo-analytics in data quality and user privacy
- * Human mobility patterns in crowdsourced Geo data
- * User privacy and personal location information
- * Data Quality-based Privacy models
- * Privacy masking and anonymization
- * Tools and Applications

INVITED SPEAKER

Kostas Chatzikokolakis, Ecole Polytechnique, France: "Privacy challenges for geo data"

PROCEEDINGS AND PAPER SUBMISSION

Interested authors may submit papers of 4 pages or 8 pages. All papers should be formatted according to the ACM SIG Proceedings double-column template (<http://www.acm.org/sigs/publications/proceedings-templates>) and be submitted to the workshop's EasyChair page at <https://easychair.org/conferences/?conf=biggp2017>. All workshop papers will be published online at CEUR (<http://ceur-ws.org/>).

IMPORTANT DATES

Paper submission:	November 30, 2016 (*Deadline extended*)
Notification of acceptance:	December 20, 2016
Camera-ready version:	January 14, 2017
Workshop:	March 21, 2017

WORKSHOP CO-CHAIRS

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