

Proposal for pre-conference workshop – AGILE 2017 Wageningen, Tuesday 9 May 2017

<http://www.agile-online.org/index.php/conference/conference-2017>

1. Workshop name/title (and acronym is applicable)

Open Data for Open Cities: Re-use and discovery level
applied to the spatial point analysis process on linear networks.

2. Description of the workshop by listing topic(s), objective(s) and planned outcome(s)

2.1 Topic(s)

- Open Data
- Re-use and discover the level of available information in cities' open data portals.
- Open data engagement mechanisms.
- Data selection process
- Spatial data quality
- Fitness for use criteria
- Spatial analysis of open data using R language
- Hotspots on linear networks
- Spatial point processes on linear networks

2.2 Objective(s)

- Present and discuss the initiative CityData 3.0 and its initial results in order to improve re-using and discovering level of geographic information available in cities.
- Get and discuss related works to the open data portals and engagement mechanisms.
- Present a new methodology to find hotspots on linear networks by using available geographic open data in cities.
- Looking for the most valuable spatial data quality benchmarks for data consumers.
- How can we define “fitness for use” methods to involve data consumers into open data government initiatives?
- Receive feedback, recommendations, future collaboration and support for current research.

2.3 Planned outcome(s)

An outcome can be e.g. the publication of a report, a special issue of an International Journal, a white paper, a book, etc. If you already know the publisher, please provide this information as well.

The possible outcomes of this workshop is as following:

- Better understanding of current frictions among published open data and open data consumers.
- List of activities that open data consumers must take into account when they are looking for open data.
- Most important data quality criterions according to participant experience.
- Open data user classification and list of possible mechanisms to engage data users.
- Better understanding of decision-making process using spatial point patterns on linear networks.
- Analysis of an open dataset through the spatial point processes on linear networks.
- A review paper or report based on results of the workshop in collaboration with participants.

3. Abstract

According to opendatasoft.org, there are currently more than 2.000 open data portals which can be used by data users. Nevertheless, authorities around the world discuss on the way to engage their users with their own open data portals and also they want to know how to improve re-usability of available information through those portals. Moreover, a lot of cities have their own open data portal which provide geographic data that can be used even by citizens.

For a long time one of the main authorities' concern was to set up and populate open data portals with web services. In a few cases data quality is not taken into account for open data initiatives. Very often data quality is set as a main concern with large data catalogues that follow most of the current standards.

However, the current challenge is not just data download or published web services, but it is about data consumer requirements, their needs, engagement and about finding the way to involve them to be a part of the data selection process.

Recently, re-usability and discoverability is one of the frequent topic discussions in events on open data and geographic standards. Several talks have been presented about data user's engagement mechanisms, tools to improve available information, re-usability and some use cases to link data consumers with open data portals. But there are still rooms to improve the usability of geographic information. For instance, what is the usefulness level of available published geographic information in cities' open data portals? Are cities effectively using these available services to promote transparency, collaboration and entrepreneurship? What strategy can improve re-usability

and discoverability level of published geographic information in open data portals?

An interesting topic in decision-making process is to understand the crime or accidents patterns in cities. Here, the usefulness of open data is bringing up because street crimes or accidents data are constricted to the street network of cities, therefore it is not appropriate to assume them as a point pattern on two-dimensional space. The aim is to provide an appropriate open dataset and then apply a new method to understand the events occurred on linear networks. Evidently, we will show how appropriate open dataset brings proper results to understand the city and then do better decision-making process. We point out that the decision-making process is not only about looking for data, it is also about using information in a right way.

The aforementioned concerns play the main role of the workshop and will be answered by using open discussions, related position papers and spatial point process analysis.

4. Short description of the intended length (half or full day) and the format of the workshop

The intended length of this workshop is full day and it will be held as following:

9:00 AM 12:00 AM Morning session

- 9:00 AM - 9:30 AM: Opening and Introduction to the workshop.
- 9:30 AM - 10:00 AM: Keynote presentation, by an European Open Data Portal project representative.
- 10:00 AM - 12: 00 PM: Position papers presentations.

1:00 PM – 5:00 PM Afternoon session

- 1:00 PM – 2:30 PM: Interactive session – Trial time: Finding relevant geographic information in cities.
- 3:00 PM – 4:30 PM: Interactive session with point process analysis: Testing use case data participants learn how to use this new methodology to find the hotspots in cities' street network.
- 4:30 PM – 5:00 PM: Open Discussion and Conclusions outline for research report and future outcomes.

5. Brief statement of the relevance of the workshop for AGILE

The aim of AGILE is to promote academic teaching and research on GI science.

This workshop addresses two principal concerns for GI researchers:

- 1) Discovering and re-using available information in open smart cities and
- 2) Using open datasets in a right way through a use case of spatial point patterns analysis on linear networks.

6. What is the approximate number of expected participants?

It is expected to have between 3 to 5 selected submissions (position papers) to be presented and at least 15 additional participants for open discussion and interactive sessions.

7. Names and e-mail addresses of the organizing member(s)

Leading AGILE member (or sponsor) and contact person:

Institute of new imaging technology, Universitat Jaume I, Spain.

Contact person: Prof. Joaquin Huerta, huerta@uji.es, Fernando Benitez, benitez@uji.es, Mohammad Mehdi Moradi, moradi@uji.es, Prof. Jorge Mateu, mateu@uji.es, Dr. Pau Aragó, parago@uji.es

Contributing AGILE members (including the persons involved) – at least one seconding AGILE member is needed:

NOVA IMS - Nova Information Management School, Universidade Nova de Lisboa.

Contact person: Prof. Marco Painho, painho@novaims.unl.pt

Institute for Geoinformatics, University of Muenster.

Guiying Du. guiying.du@uni-muenster.de

Organizing Committee:

- Prof. Joaquin Huerta
- Fernando Benitez
- Mohammad Mehdi Moradi.

Programme Committee:

- Prof. Joaquin Huerta
- Prof. Jorge Mateu
- Prof. Marco Painho
- Dr. Pau Aragó
- Fernando Benitez
- Mohammad Mehdi Moradi
- Guiying Du.

8. Additional information about previous workshops, if held.

N/A

9. Expected resources needed

Explain here if you have any special needs (e.g. internet connection, break-out room(s), etc.), what are the expected resources needed. Please take into account that the fee for the workshop (1 day) is fixed at 50€ and this should cover the basic expenses made (coffee breaks, ...). If you need additional support, this request should be directed towards the AGILE Council, but this support cannot be guaranteed.

Internet Connection

10. Other information

Submission by e-mail to: Agile2017@wur.nl