**PROPOSAL: ACM SIGSPATIAL Workshop on Geospatial Humanities**

**Topic and Format:**

Scholars in the humanities have long paid attention to spatial theory and cartographic outputs. Moreover, in recent years, new technologies and methods have lead to the emergence of a field that is now commonly known as the *Spatial Humanities*. Methods from the standard toolset of geographic information systems (e.g., computation of viewsheds and zones of influence, least-cost path analysis, mass-preserving areal weighting and dasymetric mapping, terrain classification according to land coverage or land use, different types of thematic cartography techniques, etc.) have been successfully employed to analyze the geographies of human cultures, both past and present, and to address research questions posed by humanities-based fields. However, many challenges persist in the application of more recent technical developments in the geographical information sciences, which have been showcased in venues such as ACM SIGSPATIAL (e.g., high performance computing methods for analyzing increasingly larger datasets, intelligent techniques based on machine learning for developing and tuning models making use of multiple sources of auxiliary data, the usage of volunteered geographical information to complement traditional data sources, or methods from the geo-spatial semantic web to ease interoperability across datasets and services).

This workshop is thus concerned with the use of geographic information systems and other spatial technologies in humanities research, placing a strong emphasis on new methodologies that leverage the aforementioned technical developments (e.g., the above-mentioned standard tools from geographic information systems, as well as more advanced methods such as text-based geographical analysis or spatial simulation, can all benefit from innovative approaches leveraging machine learning, parallel and/or distributed computation, semantic technologies, etc.). The workshop aims to bring together researchers and practitioners from different sub-fields of computer science and the geographical information sciences, interested in the application of spatial methods and technology to the humanities, to discuss progress in the field. Participants will explore and demonstrate the contributions to knowledge that modern GIS technologies can enable within and beyond the digital humanities.

In particular, we aim for a full day workshop organized into 4 different sessions, each featuring presentations of innovative technical and scientific contributions, submitted for peer-review in the form or regular papers (approx. 8 pages) according to the ACM formatting guidelines. The call for papers will feature the following suggested topics:

* Gazetteer development (e.g., data conflation, semantic technologies, etc.)
* Historical geographical information systems
* Text geo-parsing and other NLP techniques for spatial humanities
* Spatial simulation for humanities applications
* Spatial and spatio-temporal analysis
* Applications of the aforementioned techniques

One author per accepted contribution will be required to register for the workshop and the conference, as well as attend the workshop to present the work. Otherwise, the accepted submission will not appear in the ACM Digital Library version of the workshop proceedings.

**Match with ACM SIGSPATIAL:**

Several exploratory studies have demonstrated the benefits of bringing Geographic Information Systems (GIS) technology to humanities scholarship. Dedicated workshops have also attracted much interest from humanities researchers and GIS practitioners, and they have affirmed the power and flexibility of spatial analysis in support of fields such as history, archeology, or literary studies. However, as of yet, research in the *spatial humanities* is only just beginning to deliver the applied contributions to knowledge that will prove its significance. We argue that progress in the field depends on the close collaboration between humanities scholars and researchers from computer science and the geographical information sciences. This is particularly true if we envision going beyond the application of GIS methods that are readily available in currently existing tools, instead leveraging some of the state-of-the-art GIS methods that are still being actively researched (e.g., methods for text-based geographical analysis). ACM SIGSPATIAL (i.e., the premier annual event of the ACM Special Interest Group on Spatial Information) is currently the main scientific venue in relation to novel systems based on geo-spatial data and knowledge, fostering interdisciplinary discussions and research in all aspects of geographic information systems. We therefore believe that the spatial humanities workshop has a strong match with the conference.

**Workshop Organizers:**

* Bruno Martins, University of Lisbon
* Patricia Murrieta-Flores, University of Chester

**Program committee:**

The following people have been invited to serve the program committee for the workshop.

* Ian Gregory, Lancaster University
* Claire Grover, Edinburgh University
* Ross Purves, University of Zurich
* Chris Jones, Cardiff University
* Andrea Ballatore, University of London
* Leif Isaksen, Lancaster University
* Karl Grossner, Stanford University
* Andreas Henrich, University of Bamberg
* Benjamin Adams, University of Auckland
* Eero Hyvönen, University of Helsinki
* Benjamin Wing, University of Texas at Austin
* Ludovic Moncla, French Naval Academy Research Institute
* Paolo Plini, Italian National Research Council
* Michael Gavin, University of South Carolina
* Anne Kelly Knowles, University of Maine
* Nicole Coleman, Standford University
* Dieter Pfoser, George Mason University
* Charles Travis, Trinity College Dublin
* David J. Bodenhamer, Indiana University-Purdue University
* Trevor Harris, West Virginia University
* Gary Priestnall, University of Nottingham
* Angharad Saunders, University of South-Wales
* James Loxley, Edinburgh University
* Ryan Hauser, Stanford University
* Stephan Winter, University of Melbourne

We aim for a balanced program committee, with researchers at different stages of their careers, and that draws from multiple disciplines, including the computer science and engineering, GIScience, digital humanities, and others.

**Suggested important dates:**

With basis on the calendar of the ACM SIGSPATIAL conference, we suggest the following dates:

* Deadline for submission: 9th September, 2017
* Decisions to authors: 23rd September, 2017
* Camera ready versions ready: 7th October, 2017
* Workshop: 7th November, 2017

**Expected number of participants:**

No previous instances of the workshop have been run at ACM SIGSPATIAL, making it hard to estimate the number of participants. We do, nonetheless, have information on the historical numbers of participants for related events. In June 2015, Prof. Lincoln Mullen organized a Spatial Humanities workshop at George Mason University, which had ?? participants. In July 2016, in Warsaw, a workshop on Spatial Humanities with the title “*A Place for Places: Current Trends and Challenges in the Development and Use of Geo-Historical Gazetteers*" was organized together with the 2016 Digital Humanities conference. This workshop had approximately 20 participants. In September 2016, Prof. Ian Gregory organized a Spatial Humanities meeting at Lancaster University, which had approximately 70 participants. In October 2016, the “*Creating Spatial Historical Knowledge*” conference took place at the German Historical Institute in Washington DC, attracting around 60 scholars.