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December 2019



GeoForA Monthly Newsletter



Table of Contents

Editorial			
Editorial Board			
1. Activities 1			
2. A) Lab of the month			
B) GeoAmbassador			
3. Events			
4. Conferences 1			
5. Webinars 4			
6. Courses			
7. Training programs 4			
8 Key research publication			
9. Funding opportunities			
10. New free and open software, open data			
11. Free Books			
12. Articles 4			
13. Scholarships for students and staff			
14. Exchange programs for students and staff			
15. Awards			
16 Web sites			
17. Ideas 6			
18. Social contribution			



Be part of "Geo for All"

1. Activities of the Network

 Ottawa, Ontario, OSGeo Meetup Group meets on the third Thursday of each month. If you are located in the area, go to the link to sign up to the group and get updates about future events. (http://www.meetup.com/Ottawa OSGeo/

4. Conferences

Europe

April 2020

1. 21-24 April: <u>GISRUK</u> Venue: London, UK.

<u>May 2020</u>

2. 12-15 May: <u>INSPIRE Conference</u>
2020
Venue: Dubrovnik, Croatia

September 2020

3. 15-18 September: <u>GIScience</u> Venue: Poznań, Poland

North and Central America and the Caribbean

December 2019

4. 9-13 December: <u>AGU Meeting</u> Venue: San Francisco, California, USA



April 2020

5. 6-10 April: <u>AAG 2020 Annual Meeting</u> Venue: Denver, Colorado, USA

6. 6-10 April: <u>Symposium on Frontiers in</u> <u>CyberGIS and Geospatial Data Science</u>

Venue: Denver, Colorado, USA

<u>May 2020</u>

7. 24-27 May: 17th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2020)

Venue: Blacksburg, Virginia, USA









Editorial Board

Please refer to the appropriate person according to the following table:			
Chief Editor	Nikos Lambrinos, Professor, Dept. of Primary Education, Aristotle University of Thessaloniki, Greece. President of the Hellenic digital earth Centre of Excellence <u>labrinos@eled.auth.gr</u>	Oceania	
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GeoForAll Themes

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OpenCity Smart

 Chairs: Chris Pettit (Australia), Patrick Hogan (USA)

Mail list: <u>http://lists.osgeo.org/cgi-bin/</u> mailman/listinfo/geoforall-urbanscience

> Website:

http://wiki.osgeo.org/wiki/Opencitysmart

Teacher Training & School Education

 Chairs: Elżbieta Wołoszyńska-Wiśniewska (Poland), Nikos Lambrinos (Greece)

Mail list: <u>geoforall-teachertraining@lists.</u> <u>osgeo.org</u>

> Website:

http://wiki.osgeo.org/wiki/GeoForAll TeacherTrai ning SchoolEducation

CitizenScience

Chairs: Peter Mooney (Ireland) and Maria
 Brovelli (Italy)

Mail list: <u>https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-geocrowd</u>

Website:

http://wiki.osgeo.org/wiki/Geocrowdsourcing Citi zenScience FOSS4G

AgriGIS

Chairs: Didier Leibovici (U.K.) and Nobusuke
 Iwasaki (Japan)

Mail list: <u>https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-agrigis</u>

Website: <u>http://wiki.osgeo.org/wiki/Agrigis</u>

GeoForAll Regional Chairs and Contact Information

North America Region

Chairs: Helena Mitasova (USA), Charles Schweik (USA), Phillip Davis (USA) Subscribe at mail list <u>http://lists.osgeo.org/cgi-</u> <u>bin/mailman/listinfo/geoforall-northamerica</u>

Email: na.gfa.chair@osgeo.org

Iberoamerican Region

Chairs: Sergio Acosta y Lara (Uruguay) and Silvana Camboim (Brazil) and Antoni Pérez Navarro (Spain). Subscribe at mail list: <u>https://lists.osgeo.org/mailman/listinfo/geoforall-</u> <u>iberoamerica</u>

Email: geoforall-iberoamerica@lists.osgeo.org.

Africa Region

Chairs: Msilikale Msilanga (Tanzania), Serena Coetzee (South Africa) and Bridget Fleming (South Africa) Subscribe at mail list <u>http://lists.osgeo.org/cgi-</u> <u>bin/mailman/listinfo/geoforall-africa</u>

Email: africa.gfa.chair@osgeo.org

Asia Region (including Australia)

Chairs: Tuong Thuy Vu (Malaysia/Vietnam) and Venkatesh Raghavan (Japan/India) Subscribe at maillist <u>http://lists.osgeo.org/cgibin/mailman/listinfo/geoforall-asiaaustralia</u>

Email: asia.gfa.chair@osgeo.org

Europe Region

Chairs: Maria Brovelli (Italy) and Peter Mooney (Ireland) Subscribe at mail list <u>http://lists.osgeo.org/cgi-</u> <u>bin/mailman/listinfo/geoforall-europe</u>

Email: eu.gfa.chair@osgeo.org





5. Webinars

• Using the UN Biodiversity Lab to Support Biodiversity Monitoring & Reporting

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Spatial data are available for your country through the UN Biodiversity Lab [1] on trends such as the rate of forest loss between 2000-2017 and protected area coverage of key biodiversity areas. You can also access maps that can help you understand where to take actions, such as those that safeguard ecosystem services and carbon stores in the environment. Would you like to learn how to use the UN Biodiversity Lab Status Maps [2] to support biodiversity monitoring and reporting?

Watch the webinar recording at https://youtu.be/Bo2WilWtQ9s

[1] <u>https://unbiodiversitylab.org</u>

[2] <u>http://nbsapforum.net/knowledge-</u> <u>base/resource/18-draft-biodiversity-status-maps---</u> <u>6nr-18-cartes-préliminaires-sur-létat-de</u>

7. Training programs

 GeoForAll educational materials have been transferred to our new web site. <u>GeoForAll educational</u> <u>inventory system, a place to</u> <u>search and share</u> <u>educational materials</u>



 <u>Use of geodata in the social sciences</u> by Dr. Jan-Philipp Kolb
 Date: May 04 – 05 2020
 Venue: Mannheim B2,8, Germany / Course language: German

12. Articles

<u>Acronyms</u>

by Nikos Lambrinos, Chief Editor, and Michael Finn.

For those who would like to support this effort, please send any acronyms to the Chief Editor (<u>labrinos@eled.auth.gr</u>).

3DEP: 3-D Elevation Program

AAG: Association of American Geographers

AGS: American Geographical Society

AGU: American Geophysical Union

AM/FM: Automated Mapping/Facilities Management

ASPRS: American Society for Photogrammetry and Remote Sensing

AURIN: Australian Urban Research Infrastructure Network

BBSRC: Biotechnology and Biological Sciences Research Council

BIM: Building Information Modelling

CAADP: Comprehensive African Agricultural Development Programme

CAD: Computer Aided Design

CaGIS: Cartograhy and Geographic Information Society

CEGIS: Center of Excellence for Geospatial Information Science

CEOS: Committee on Earth Observation Satellites

CI: CyberInfrastructure

CLGE: The Council of European Geodetic Surveyors

CODATA: Committee on Data for Science and Technology

COGO: Coordinate geometry

CRS: Coordinate Reference System

CSA: Canadian Space Agency

CUDA: Compute Unified Device Architecture

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DAAC: Distributed Active Archive Center (of NASA) **DEM: Digital Elevation Model DSM:** Digital Surface Models DWG: Design file format **DXF:** Drawing Interchange File ECMWF: European Center for Medium range Weather Forecasting EOS: Earth Observation Science EOSDIS: Earth Observing System and Data Information System **EPA: Environmental Protection Agency** EPSG: European Petrol Survey Group (used in projection IDs) ESA: European Space Agency ESERO: European Space Education Resource Office EUROGI: European Umbrella Organisation for **Geographic Information** EuroSDR: European Spatial Data Research FOSS: Free and Open Source Software FOSS4G: Free and Open Source Software For Geospatial **GCP: Ground Control Point** GloFAS: Global Flood Awareness System **GNSS: Global Navigational Satellite System** GODAN: Global Open Data for Agriculture and Nutrition **GPS: Global Positioning System GPX: GPS Exchange Format** GRASPgfs: Geospatial Resource for Agricultural Species and Pests and Pathogens with workflow integrated modeling to support **Global Food Security GSoC:** Google Summer of Code HOT: Humanitarian OpenStreetMap Team HPC: high-performance computing ICA: International Cartographic Association

ICSU-WDS: International Council for Science -World Data System **IDE:** Spatial Data Infrastructure INSPIRE: Infrastructure for Spatial Information in Europe IPGH: Pan American Institute of Geography and History ISO: International Organization for Standardization **ISPRS:** International for Society Photogrammetry and Remote Sensing **ISPRS:** International Society for Photogrammetry and Remote Sensing JAXA: Japan Aerospace Exploration Agency KML: Keyhole Markup Language LiDAR: Light Detection and Ranging LOC: Local Organizing Committee LOD: Level Of Detail MIL: Media and Information Literacy MoU: Memorandum of Understanding NAD: North American Datum NCSA: National Center for Supercomputing Applications NED: National Elevation Dataset NEPAD: NEw Partnership for African Development NGA: National Geospatial Intelligence Agency NHD: National Hydrologic Dataset NLCD: National Land Cover Dataset NSDI: National Spatial Data Infrastructure NSF: National Science Foundation **OECD: Organisation for Economic Co-Operation** and Development **OER: Open Educational Resources** OGC: Open Geospatial Consortium **OHI:** International Hydrographic Office **OSGeo: Open Source Geospatial Foundation** OSM: OpenStreetMap OTB: Orfeo Tool Box

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RCMRD: Regional Centre for Mapping of **Resources for Development RDA: Research Data Alliance** ROSHYDROMET: Russian Federal Service for Hydrometeorologyand Enviromental Monitoring RUFORUM: Regional Universities Forum for capacity building in agriculture SaaS: Software as a Service SAR: Synthetic Aperture Radar SDI: Spatial Data Infrastructure SIG: Geographic Information System SIGTE: The GIS and Remote Sensing Service of the University of Girona, Spain SQL: Structured Query Language STISA 2024: Science Technology Innovation Strategy for Africa STSM: Short Term Scientific Missions **TIN: Triangulated Irregular Network** UAV: Unmanned Aerial Vehicle UML: Unified Modeling Language UN-GGIM: United Nations Global Geospatial Information Management USGS: U.S. Geological Survey USGIF: United States Geospatial Intelligence Foundation VGI: Volunteered Geographic Information XSEDE: Extreme Science and Engineering **Discovery Environment** WCS: Web Coverage Service WFS: Web Feature Service WGCapD: Working Group on Capacity Building and Data Democracy WGS: World Geodetic System WISERD: Wales Institute of Social & Economic Research, Data & Methods WMO: World Meteorological Organization WMS: Web Map Service WMTS: Web Map Tiles Services WOIS: Water Observation Information System WPS: Web Processing Service

17. Ideas / Information

1. To post your FOSS4G educational information go to <u>http://www.osgeo.org/education</u>. There you can find more educational activities posted by members of our community.

FOSS4G is the annual global event of the Open Source Geospatial Foundation. It is the largest technical geospatial Open Source conference in the world. The FOSS4G conference focuses on Free and Open Source Software for Geospatial applications. In addition to high level technical talks four key domain are discussed every year to showcase the connection between free and open source software and communities from neighbouring domains.

2. University of Colorado – College of Liberal Arts & Sciences

Assistant Professor position

The University of Colorado Denver I Anschutz Medical Campus seeks individuals with demonstrated commitment to creating an inclusive learning and working environment. We value the ability to engage effectively with students, faculty and staff of diverse backgrounds.

The Department of Geography and Environmental Sciences (GES) at the University of Colorado Denver (CU Denver) invites applications for a tenure-track appointment at the Assistant Professor level in the area of Human-Environment Interactions to begin in August 2020. We seek a Human Geographer focused on environment-society topics such as energy and resources, environmental justice, food and agriculture, natural hazards, social vulnerability, urbanization and development, and/or water resources. Candidates should demonstrate rigorous and innovative theoretical, methodological and public engagement/communication components to their social science research. We also seek candidates committed to excellent teaching and mentoring at the undergraduate and graduate levels.

Assistant Professor – 17211 Assistant Professor <u>https://cu.taleo.net/careersection/2/jobdetail.ftl</u> 1 of 4 9/13/2019, 2:15 PM





The candidate will be expected to teach four courses (2/2) per academic year that may include undergraduate classes such as Environment, Society and Sustainability and Introduction to Human Geography as well as advanced undergraduate and graduate courses in their area of specialization. Candidates must have a PhD in geography or related discipline at the time of appointment and maintain an active research program that yields publications and external grant submissions.

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Posting Date Sep 12, 2019, 9:09:30 AM Unposting Date Ongoing Posting Contact Name: Gregory Simon Posting Contact Email: gregory.simon@ucdenver.edu Position Number: 00636687

3. The European Commission - Joint Research Centre (JRC) in Ispra (Italy) has just opened a position for a trainee to join the team working on the implementation of the INSPIRE Directive.

In the context of improving the usability of INSPIRE data and facilitating the integration with other relevant sources, the trainee will explore the the **INSPIRE** synergies between and the OpenStreetMap (OSM) data ecosystems. More specifically, the trainee will contribute to the development of an OSM encoding for INSPIRE data through the definition of transformation rules resulting from the analysis of data models. These rules will be applied in practice to transform existing INSPIRE data sets and integrate them with OSM data sets. The trainee will also assess the pros and cons of the transformation, technical and organisational barriers and challenges encountered, as well as usability issues solved. The work is expected to produce scientific outputs such as research papers and/or oral presentations at conferences/workshops. Candidates shall have a Masters/PhD degree, or be enrolled in a PhD degree or in the final year of a Masters degree in Geoinformation Science. Geomatics, Computer Science, or a related discipline. You can download the vacancy notice at https://recruitment.jrc.ec.europa.eu/showprj.php?ty pe=T&id=13310 and submit an application at https://recruitment.jrc.ec.europa.eu/call-fortraining.php?inst=DGI&pid=13310

4. EgyptSat-A, owned by Egypt's National Authority for Remote Sensing and Space Sciences, an Egyptian government agency tasked with gathering and studying satellite imagery of the Earth, was launched on February 21st from Baikonur, Kazakhstan. The spacecraft's electro-optical imaging system includes an Earth-viewing telescope and camera that can spot surface features as small as 3.3 feet (1 meter), with similar capabilities as the failed EgyptSat 2 satellite. EgyptSat-A is the third Egyptian Earth observation satellite built in Russia, following the EgyptSat 1 spacecraft launched in 2007 and EgyptSat 2 launched in 2014.

The satellite weighs more than a ton fully-fueled, and Tass reported EgyptSat-A features several improvements over the EgyptSat 2 design, including improved solar batteries and a high-speed radio link ground stations. with More details at: https://spaceflightnow.com/2019/02/20/soyuz-readyfor-launch-with-egyptian-imaging-satellite/



5. Egypt succeeds in winning the hosting of the African Space Agency. More details at: https://www.youm7.com/story/2019/2/8/%D9%85% D8%B5%D8%B1-%D8%AA%D9%86%D8%AC%D8%AD-%D9%81%D9%89-%D8%A7%D9%84%D9%81%D9%88%D8%B2-%D8%A8%D8%A7%D8%B3%D8%AA%D8%B6%D8%A7 %D9%81%D8%A9-%D9%88%D9%83%D8%A7%D9%84%D8%A9-%D8%A7%D9%84%D9%81%D8%B6%D8%A7%D8%A1-%D8%A7%D9%84%D8%A3%D9%81%D8%B1%D9%8A %D9%82%D9%8A%D8%A9/4133355 (in Arabic) and Rania Elsayed (ranyaalsayed@gmail.com)

Deadline for applications is January 10, 2020.





6. "Collaborative list of events on Geographic Information Technology (TIG)". An excellent source of information (in Spanish)

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Add a TIG event "Collaborative list of events on Geographic Information Technology (TIG) "

"You can include an event from the form <u>https://forms.gle/AfvDzJjWLBCVi6qV7;</u>

How to add an event View added events License

To add an event use the form: The events added by the community can be found in the "Form response" tab. Also included in the Nosolosig Events Agenda: The "Collaborative List of Events on Geographic Information Technologies (TIG)" of Nosolosig has a Creative Commons Attribution 4.0 International license

https://forms.gle/AfvDzJjWLBCVi6qV7 "Form responses"

tab

http://creativecommons.org/licenses/by/4.0/ http://www.nosolosig.com/geo-eventos

Types of events

- All related to Geographic Information Technologies and maps. Workshops and webinar are included but not courses, for which a similar list is being prepared Ambit

- Although the events are mainly in Spanish (or held in Spain and Latin America), you can add other international events that you think are relevant Who

- Anyone can add an event, even if it is not part of the event organization

Veracity of the data

- There is no responsibility for the accuracy of this data; the data is collected by volunteers many times outside the organization of events

Comments

 Any comments, suggestions, congratulations or scolding, please contact Nosolosig: nosolosig@nosolosig.com

Share

- URL of the collaborative List of TIG events to share: <u>https://nosolosig.page.link/listaEventosTIG</u>

More info

 In the news Collaborative list of events on Geographic Information Technologies published in Nosolosig International Society for Photogrammetry and Remote Sensing

7. There is an invitation to anyone interested in submitting research articles to the Special issue "Advances in Social Network Analysis – Spatio-Temporal and Semantic Methods" in the Open Access Journal ISPRS International Journal ofGeo-Information. More information and the full call for papers can be found at

https://www.mdpi.com/journal/ijgi/special_issues/so cial_spatial

Submission deadline: 30 June 2020.

Data from geospatial applications, such as social media, location-based service (LBS) and volunteered geographic information (VGI) platforms, has become а prominent source for modeling human behavior and for better understanding complex social



dynamics in geographic spaces. The massive amount of multi-dimensional data (spatial, temporal, semantic) from these sources is typically unstructured and thus calls for an advance in data representation, modeling, analysis, and visualization for the successful transition from data to information. This Special Issue is inviting contributions that demonstrate integrated analysis of spatial, temporal, and semantic data from social networks, including their content, linkage, and structure, towards a better understanding of social behavior, human interaction patterns and the dynamic characteristics of real-world phenomena and events. This involves novel use of machine learning approaches, analysis frameworks, data mining, and (geo-) statistical methods to exploit unstructured content of social network data. This Special Issue also encourages the demonstration of new analytical tools, discussion of current data privacy and licensing issues, the exploration of data from lesser known

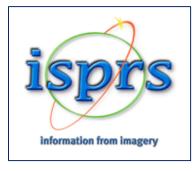


December 2019

social media, LBS, and VGI platforms, and the application of fusion methods of data across multiple platforms.

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8. You are invited to submit a research paper to <u>"OpenStreetMap as a multi-disciplinary nexus:</u> <u>Perspectives, Practices and Procedures</u>", a Special



Issue of the ISPRS International Journal of Geo-Information. The aim of this Special Issue is to showcase both the ongoing innovation and the maturity of

scientific investigations and research into OpenStreetMap, demonstrating how, as a research object, it converges multiple research areas together. Collecting contributions from multiple disciplines and domains, this Special Issue will show how the sum total of investigations of issues like VGI, geoinformation, and geo-digital processes and representations can shed light on the relations between crowds, real-world applications, technological developments, and scientific research.

This Special Issue is primarily aimed at collecting papers that extend the research works presented in the <u>Academic Track</u> of <u>State of the Map 2019</u>, held in Heidelberg (Germany) on September 21–23, 2019. However, other original submissions aligned with the area of research are also highly welcome.

We expect empirical, methodological, or conceptual contributions addressing any scientific aspect related to OpenStreetMap, in particular, but not limited, to the following:

• Extrinsic and intrinsic quality assessment of OpenStreetMap data Analysis of contribution patterns Interactions in OpenStreetMap between OpenStreetMap and other data sources Analysis/comparison of available software for scientific purposes related to OpenStreetMap New approaches to facilitate or improve data collection in

OpenStreetMap (e.g., through gamification or citizen science approaches) Bridging the communities: Creating better connections and collaborations the scientific community and between the OpenStreetMap community Open research problems in OpenStreetMap and challenges for the scientific community Cultural, political, and organizational aspects of data production and usage practices in OpenStreetMap Literature reviews and theoretical papers on any of the listed topics or topics related to the scope of the Special Issue More details at: https://www.mdpi.com/journal/ijgi/special issues/Op enStreetMap

