



# GeoForAll

Monthly Newsletter



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## Be part of "Geo for All"

### Editorial



**Nikos Lambrinos**  
Chief Editor

Dear members of GeoForAll Community,

On the occasion of the first issue of 2022, I would like to wish you a Happy, Healthy, and Fruitful New Year.

We are now in the eighth year of our Newsletter. Let us be strong to celebrate the tenth year, which is not that far away, just two more years. Until then, I am sure and wish that we will have a lot of great news to publish in our issues, always with the help of you and the Newsletter contributors.

In this issue you will read, among other things, the award of the students of the GeoForAll school competition. New generation, new blood, new ideas. They are the ones we rely on to lead geospatial technologies to new roads. They deserve a lot of congratulations.

Have a nice reading.

Nikos Lambrinos  
Chief Editor

### 3. Events

- The recordings of the training sessions (R, Python, GRASS GIS) and the presentations from OpenDataScience Europe Conference 2021 (September 6-10, 2021) are available at <https://opendatascience.eu/video-gallery/> and the keynote presentation recordings are at <https://opendatascience.eu/odse-conference-key-notes/>

### 4. Conferences

#### NORTH AMERICA

#### February 2022

1. 1-3 February: [106th NCGE Annual Conference](#)

Venue: Virtual

Organizer: URISA

#### April 2022

2. 1-3 April: [State of the Map US 2022](#)

Venue: University of Arizona, Tucson, Arizona, USA

Organizer: OpenStreetMap US



## Editorial Board

Please refer to the appropriate person according to the following table:

|   |  |   |
|---|--|---|
| <p>Chief Editor</p>           | <p>Nikos Lambrinos, Professor, Dept. of Primary Education, Aristotle University of Thessaloniki, Greece.<br/>President of the Hellenic digital earth Centre of Excellence<br/><a href="mailto:labrinos@eled.auth.gr">labrinos@eled.auth.gr</a></p>   | Oceania   |
| <p>Co-editor</p>              | <p>Rizwan Bulbul, Assistant Professor of GIScience<br/>Head of Geospatial Research and Education Lab<br/>Department of Space Science, Institute of Space Technology,<br/>Islamabad, Pakistan<br/><a href="mailto:bulbul@grel.ist.edu.pk">bulbul@grel.ist.edu.pk</a></p>  | India, Sri Lanka, Pakistan, Afghanistan, Nepal, Burma, Iran, Iraq, Jordan, Syria, Israel, Lebanon, Turkey, Saudi Arabia, Oman, Yemen, United Arab Emirates, Kuwait and Islands of S. Pacific.   |
| <p>Co-editors</p>             | <p>Pavel Kikin, Senior Lecturer "Department of applied informatics and IT", Siberian State Univer. of Geosystems and Technologies<br/>Alexey Kolesnikov, Senior Lecturer "Department of cartography and GIS", Siberian State Univer. of Geosystems and Technologies<br/><a href="mailto:it-technologies@yandex.ru">it-technologies@yandex.ru</a></p> | Russia, Mongolia, China, Japan, S. Korea, Vietnam, Thailand, Malaysia, Laos, Myanmar, Cambodia, Singapore, Brunei, Indonesia, Philippines, Turkmenistan, Uzbekistan, Tajikistan and Kyrgyzstan. |
| <p>Co-editor</p>             | <p>Rania Elsayed, Computers &amp; Information Researcher, Division of Scientific Training &amp; Continuous Studies, National Authority for Remote Sensing &amp; Space Sciences, Cairo, Egypt.<br/><a href="mailto:ranyaalsayed@gmail.com">ranyaalsayed@gmail.com</a></p>   | Africa  |
| <p>Co-editor</p>            | <p>Seraphim Alvanides, Reader (Geographical Information Science)<br/>Northumbria University, Newcastle NE1 8ST, United Kingdom.<br/><a href="mailto:s.alvanides@gmail.com">s.alvanides@gmail.com</a></p>   | Scandinavian countries, Denmark, Germany, Austria, Switzerland, UK, Ireland, Iceland  |
| <p>Co-editor</p>            | <p>Antoni Perez Navaro, Associate Professor at Universitat Oberta de Catalunya (UOC) Computer Sciences and Multimedia Department<br/><a href="mailto:aperezn@uoc.edu">aperezn@uoc.edu</a></p>  | Italy, Malta, Spain, Portugal, France, Belgium, The Netherlands, Luxemburg.   |
| <p>Co-editor</p>            | <p>Emma Strong Planner with Pueblo County, Colorado<br/><a href="mailto:eestrong118@gmail.com">eestrong118@gmail.com</a></p>   | North and Central America   |
| <p>Co-editor</p>            | <p>Sergio Acosta Y Lara, Departamento de Geomática<br/>Dirección, Nacional de Topografía, Ministerio de Transporte y Obras Públicas, URUGUAY<br/><a href="mailto:sergio.acostaylara@mtop.gub.uy">sergio.acostaylara@mtop.gub.uy</a></p>  | South America   |
| <p>Co-editor</p>            | <p>Codrina Ilie, PhD student at the Technical University of Civil Engineering, Bucharest, Romania</p>  | The Balkans, Ukraine, Moldavia, Estonia, Lithuania, Belarus, Latvia, Hungary, Czech Republic, Slovakia  |
| <p>Production Designer</p>  | <p>Nikos Voudrulis, MSc, PhD in geography education.<br/><a href="mailto:nvoudrulis@gmail.com">nvoudrulis@gmail.com</a></p>  | Design and final formation of the newsletter  |
|                             | <p>Paulo César Coronado Sánchez, Professor of computer sciences at Universidad Distrital Francisco José de Caldas, Head of GISEPROI and OSGeoLabUD research Group. Bogotá, Colombia<br/><a href="mailto:paulocoronado@gmail.com">paulocoronado@gmail.com</a></p>   | Translator and designer of the Spanish Edition  |



## GeoForAll Themes

### ▪ OpenCity Smart

Theme under revision

### ▪ Teacher Training & School Education

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

➤ Mail list: [geoforall-teachertraining@lists.osgeo.org](mailto:geoforall-teachertraining@lists.osgeo.org)

➤ Website: [http://wiki.osgeo.org/wiki/GeoForAll\\_TeacherTraining\\_SchoolEducation](http://wiki.osgeo.org/wiki/GeoForAll_TeacherTraining_SchoolEducation)

### ▪ CitizenScience

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

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

➤ Website: [http://wiki.osgeo.org/wiki/Geocrowdsourcing\\_CitizenScience\\_FOSS4G](http://wiki.osgeo.org/wiki/Geocrowdsourcing_CitizenScience_FOSS4G)

### ▪ AgriGIS

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

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

➤ Website: <http://wiki.osgeo.org/wiki/AgriGIS>

## GeoForAll Regional Chairs and Contact Information

### North America Region

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

Email: [na.gfa.chair@osgeo.org](mailto: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:

<https://lists.osgeo.org/mailman/listinfo/geoforall-iberoamerica>

Email: [geoforall-iberoamerica@lists.osgeo.org](mailto:geoforall-iberoamerica@lists.osgeo.org).

### Africa Region

Chairs: Msilikale Msilanga (Tanzania), Serena Coetzee (South Africa) and Bridget Fleming (South Africa) Subscribe at mail list

<http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-africa>

Email: [africa.gfa.chair@osgeo.org](mailto:africa.gfa.chair@osgeo.org)

### Asia Region (including Australia)

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

Email: [asia.gfa.chair@osgeo.org](mailto:asia.gfa.chair@osgeo.org)

### Europe Region

Chairs: Maria Brovelli (Italy) and Peter Mooney (Ireland) Subscribe at mail list

<http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-europe>

Email: [eu.gfa.chair@osgeo.org](mailto:eu.gfa.chair@osgeo.org)



## GeoAmbassador Content table

|                            |   |
|----------------------------|---|
| July 2016, Vol.2, no.7     | Prof. Georg Gartner, Vienna University of Technology  |
| Aug 2016, Vol.2, no.8      | Prof. Silvana Philippi Camboim, Federal University of Paraná, Brazil  |
| Sep 2016, Vol.2, no.9      | Nimalika Fernando, Sri Lanka  |
| Oct 2016, Vol.2, no.10     | Sergio Acosta Y Lara, Montevideo Uruguay  |
| Nov 2016, Vol. 2, no. 11   | Victoria Rautenbach, Centre of Geoinformation Science Univ. of Pretoria, South Africa                             |
| Dec 2016, Vol.2, no.12     | Dr. Daria Svidzinska, Taras Shevchenko National University of Kyiv, Ukraine                                       |
| Jan 2017, Vol.3 no.1       | Dr. Mark Ware, University of South Wakes, UK  |
| Feb 2017, Vol.3, no. 2     | Dr. Rafael Moreno Sanchez, Department of Geography and Environmental Sciences, University of Colorado Denver, USA |
| March 2017, Vol.3 no.3     | Dr. Tuong Thuy Vu, School of Environmental and Geographical Sciences, University of Nottingham, Malaysia campus   |
| April 2017, Vol.3 no.4     | Michael P. Finn, U.S. Geological Survey   |
| May 2017, Vol.3 no.5       | Dr. Peter Mooney, Maynooth University, NASA   |
| June 2017, Vol.3 no.6      | Patrick Hogan, NASA   |
| July 2017, Vol.3 no.7      | Prof. Dr. Josef Strobl, Salzburg  |
| September 2017, Vol.3 no.9 | Bridget Fleming, South Africa   |
| October 2017, Vol.3 no.10  | Sven Schade, Joint Research Centre, Italy   |
| November 2017, Vol.3 no.11 | Luciene Stamato Delazari, Universidade Federal do Paraná in Brazil  |
| December 2017, Vol.3 no.12 | Charlie Schweik, Univ. of Massachussets, USA  |
| January 2018, Vol.4 no.1   | Julia Wagemann, European Centre for Medium-Range Weather Forecasts  |
| February 2018, Vol.4 no.2  | Barend Köbben, Department of Geo-Information Processing University of Twente                                      |
| March 2018, Vol.4 no.3     | Kurt Menke, Birds Eye View  |
| April 2018, Vol.4 no.4     | Dr. Clous Rinner, Department of Geography and Environmental Studies at Ryerson University, Toronto, Canada        |
| June 2018, Vol.4, no.6     | Martin Landa, Department of Geomatics, Faculty of Civil Engineering, Czech Technical University (CTU) in Prague   |

## Lab of the Month, Content table

|                            |  |
|----------------------------|--|
| Aug 2015, Vol.1 no.1       | Open Source Geospatial Lab, Kathmandu University, Nepal (Asia)   |
| Sep 2015, Vol.1 no.2       | FOSS4G Lab, University of Colorado Denver (USA)  |
| Oct 2015, Vol.1, no.3      | Open Source Geospatial Lab, University of Southampton, UK (Europe)   |
| Nov 2015, Vol.1 no.4       | The Northeast Institute of Geography and Agroecology of Chinese Academy of Science, China (Asia)                               |
| Jan 2016, Vol.2 no.1       | Centre for Geoinformation Science, University of Pretoria, South Africa, (Africa)  |
| Feb 2016, Vol.2 no.2       | Open Source Geospatial Lab, University of Newcastle, UK, (Europe)  |
| Mar 2016, Vol.2 no.3       | SMART Open Source Geospatial Lab, University of Wollongong, (Australia)  |
| Apr 2016, Vol.2 no.4       | Regional Centre for Mapping of Resources for Development, Nairobi, Kenya (Africa)  |
| May 2016, Vol.2 no.5       | GeoDa Centre – Arizona State University, (USA)   |
| June 2016, Vol.2 no.6      | Direccion Nacional de Topografia – MTOP Montevideo, Uruguay, (South America)   |
| July 2016, Vol.2 no.7      | SIGTE – University of Girona, Spain (Europe)   |
| August 2016, Vol.2 no.8    | Open Source Geospatial Lab, Department of Geodesy and Surveying, Budapest Univ. of Technology and Economics, Hungary (Europe). |
| September 2016, Vol.2 no.9 | Open Source Geospatial Lab, Faculty of Geodesy, University of Zagreb, Croatia, (Europe)  |
| October 2016, Vol.2 no.10  | Hellenic digital earth Centre of Excellence, Aristotle University of Thessaloniki, Greece, (Europe)                            |
| November 2016, Vol.2 no.11 | Department of Geoinformatics, Palacký University in Olomouc, Czech Republic  |
| December 2016, Vol.2 no.12 | Asian Institute of Technology, Bangkok, Thailand   |
| January 2017, Vol.3 no.1   | Spatial Lab, Texas A&M, Corpus Christi, USA  |
| February 2017, Vol.3 no.2  | Open Source Geospatial Lab, Faculty of Civil Engineering, Belgrade, Serbia   |
| March 2017, Vol.3 no.3     | Geomatics and Earth Observation Laboratory (GEOlab) , Politecnico di Milano, Italy   |
| April 2017, Vol.3 no.4     | Faculty of Civil Engineering, Department of Geomatics, Czech Technical University in Prague, Czech Republic                    |
| May 2017, Vol.3 no.5       | the Laboratory of socio-geographical research of the University of Siena, ITALY  |
| June 2017, Vol.3 no.6      | A World Bridge program   |
| July 2017, Vol.3 no.7      | Department of Civil, Environmental and Mechanical Engineering of the University of Trento, Italy                               |
| August 2017, Vol.3 no.8    | Institute of Geography, Faculty of Science, Pavol Jozef Šafárik University in Košice, Slovakia                                 |
| November 2020, Vol.6 no.11 | Universitat Oberta de Catalunya (UOC), Spain   |
| January 2021, Vol.7 no.01  | gvSIG Uruguay Community, Uruguay   |



## EUROPE

### May, 2022

3. 5-7 May: [EUROGEO Annual Conference](#)  
 “Re-Visioning geography for sustainability in the post-CVID era”

Venue: University of the Aegean, University Hill, Mytilene, Lesvos Island, Greece

Organizer: EUROGEO

### June 2022

4. 8-9 June: [Jornadas de SIG Libre](#) (Free SIG Days).

Venue: Girona, Spain

Organizer: University of Girona

### July 2022

5. 5-8 July: [GISalzburg22](#). Designing future with Geoinformatics

Venue: Salzburg, Austria

Contact email: [training@eumetsat.int](mailto:training@eumetsat.int)

Link:

<https://training.eumetsat.int/course/view.php?id=447>

- Integrated Meteorological Training Course (IMTC) at RTC Meteorological Training Institute (MTI), IMD, Pune, India  
 Start date: January 31  
 End date: May 27  
 Organizer: India Meteorological Department  
 Host: Ministry of Earth Sciences, Government of India  
 Language: English  
 Venue: Pune, India  
 Contact name: Dr. Somenath Dutta  
 Contact email: [dutta.dr.somenath@gmail.com](mailto:dutta.dr.somenath@gmail.com)  
 Link: <https://www.imdpune.gov.in/training/training.html>

## 5. Webinars

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- If you want to start learning how to use QGIS, there are some excellent free resources at <https://www.gislounge.com/free-ways-to-learn-qgis/> and [https://www.gislounge.com/self-guided-qgis-courses/?utm\\_medium=email&utm\\_campaign=GISNL-Aug-27-2020&utm\\_source=YMLP](https://www.gislounge.com/self-guided-qgis-courses/?utm_medium=email&utm_campaign=GISNL-Aug-27-2020&utm_source=YMLP)

## 6. Courses

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- Training school and Workshop on Dust Aerosol Detection and Monitoring  
 Start date: January 25  
 End date: January 27  
 Organizer: Copernicus, EUMETSAT  
 Language: English  
 Venue: Online

## 7. Training programs

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- GeoForAll educational materials have been transferred to our new web site. [GeoForAll educational inventory system, a place to search and share educational materials](#)

## 11. Free books, educational materials, etc.

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- Visit the YouTube QGIS channel at <https://www.youtube.com/channel/UCGS162t4hkOA0b35ucf1yng/videos> to get videos of QGIS applications, representations and ideas.





- FOSS4G is the international edition of the Free and Open Source Software for Geospatial conference (FOSS4G) of the Open Source Geospatial Foundation. The annual FOSS4G conference is the largest global gathering for geospatial software. The full academic proceedings and individual papers from the FOSS4G Global conferences (Starting from Nottingham FOSS4G) are available

at <https://scholarworks.umass.edu/foss4g/>.

Recordings from FOSS4G presentations are also made available thanks to German National Library of Science and Technology at <https://av.tib.eu/publisher/FOSS4G> and the FOSS4G YouTube channel at <https://www.youtube.com/c/FOSS4G>

- Spatial Statistics: Fundamentals and application with Geographic Information Systems

A free book to learn how data science can help us better understand the territory through spatial analysis. It is in Spanish.

The Geographical Research Institute of the National University of Luján, Argentina, continues with its intense work of developing studies on human activities and their footprint in the territory. These investigations not only cover various scales, from global to local problems, but are also approached from different points of view, including the application of spatial analysis methodologies through TIG Geographic Information Technologies.

The authors, **Gustavo D. Buzai** and **Eloy Montes Galbán**, point out that “we are going through an exceptional stage for the application of quantitative spatial analysis, which is linked to the evolution of Geographic Information Systems (GIS) as the central technology of Geoinformatics and integrating the software that provides an application structure to Automated Geography”.

In this context, the book Spatial Statistics: Fundamentals and application with Geographic Information Systems takes an orientation towards the exclusive treatment of spatial entities, both in their specific locations and linked to their

attributes. Its objective is to present the central foundations of quantification in Geography and the current possibilities for the treatment of spatial data that GIS technology makes available to potential users from different scientific fields.

The book makes, in the first part, a didactic tour that goes through the theoretical and methodological foundations of quantitative Geography, reviewing the *theory* of quantification in Geography, the main *concepts* of spatial analysis, and the *methodology* of the most used geoprocesses and measurements. in territorial analysis. In the second part, this knowledge of spatial statistics is applied in different cases of regional and urban studies.

You can download it from [https://www.researchgate.net/publication/357001572\\_Estadistica\\_Espacial\\_Fundamentos\\_y\\_aplicacion\\_con\\_Sistemas\\_de\\_Informacion\\_Geografica](https://www.researchgate.net/publication/357001572_Estadistica_Espacial_Fundamentos_y_aplicacion_con_Sistemas_de_Informacion_Geografica)

## 12. Articles

### Acronyms

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 ([labrinos@eled.auth.gr](mailto:labrinos@eled.auth.gr)).

3DEP: 3-D Elevation Program

AAG: Association of American Geographers

AGI: Ambient Geographic Information

AGS: American Geographical Society

AGU: American Geophysical Union

AI: Artificial Intelligence

AM/FM: Automated Mapping/Facilities Management

API: Application Programming Interface

ASPRS: American Society for Photogrammetry and Remote Sensing



AURIN: Australian Urban Research Infrastructure Network

BBSRC: Biotechnology and Biological Sciences Research Council

BDS: BeiDou Navigation Satellite Demonstration System

BIM: Building Information Modelling

CAADP: Comprehensive African Agricultural Development Programme

CAD: Computer Aided Design

CaGIS: Cartography and Geographic Information Society

CCGI: Collaboratively Contributed Geographic Information

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

CRC: Census Research Centre

CRS: Coordinate Reference System

CSA: Canadian Space Agency

CSSTEAP: Center for Space Science & Technology Education in Asia and the Pacific

CUDA: Compute Unified Device Architecture

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

GDAL: Geospatial Data Abstraction Library

GEO: Group on Earth Observations

GEO: Geosynchronous Earth Orbits

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

GRACE: Gravity Recovery and Climate Experiment (satellite program)

GRASPGfs: Geospatial Resource for Agricultural Species and Pests and Pathogens with workflow integrated modeling to support Global Food Security

GSoC: Google Summer of Code

HLPF: High Level Political Forum (of UN)

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 Society for Photogrammetry and Remote Sensing

ISRO: Indian Space Research Organization

JAXA: Japan Aerospace Exploration Agency

KML: Keyhole Markup Language

LBS: Location-Based Service

LEO: Low Earth Orbits

LiDAR: Light Detection and Ranging

LOC: Local Organizing Committee

LOD: Level Of Detail

MEO: Medium Earth Orbits

MIL: Media and Information Literacy

MoU: Memorandum of Understanding

MSS: Multispectral Scanner

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

NOOSA: United Nations Office for Outer Space Affairs

NRSA: Indian National Remote Sensing Agency

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

PPGIS: Public Participation in Geographic Information Systems

PPSR: Public Participation in Scientific Research

RBV: Return Beam Vidicon

RCMRD: Regional Centre for Mapping of Resources for Development

RDA: Research Data Alliance

ROSCOSMOS: Russian Federal Space Agency

ROSHYDROMET: Russian Federal Service for Hydrometeorology and Environmental Monitoring

RUFORUM: Regional Universities Forum for capacity building in agriculture

SaaS: Software as a Service

SAR: Synthetic Aperture Radar

SDG: Sustainable Development Goal

SDI: Spatial Data Infrastructure

SIG: Geographic Information System

SIGTE: The GIS and Remote Sensing Service of the University of Girona, Spain

SPIDER: open SPatial data Infrastructure eDucation nEtwork

SQL: Structured Query Language

STISA 2024: Science Technology Innovation Strategy for Africa

STSM: Short Term Scientific Missions

SWIR: Short Wave Infrared

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

VNIR: Visible Near Infrared





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

of any PAIGH member state, irrespective of the granting university, or b) have a degree granted by an accredited university in any PAIGH member state, irrespective of the student's citizenship. The candidates must write a scientific paper summarizing their work, a fact that justifies an early announcement well before June.

The announcement can be downloaded from [https://comisiones.ipgh.org/CARTOGRAFIA/Premio/Tesis\\_MSc\\_2022/Poster\\_Premio\\_Cartografia\\_MSc\\_2022\\_EN.pdf](https://comisiones.ipgh.org/CARTOGRAFIA/Premio/Tesis_MSc_2022/Poster_Premio_Cartografia_MSc_2022_EN.pdf)

Updates will be available soon at [https://comisiones.ipgh.org/CARTOGRAFIA/Premio/MSc\\_EN.html](https://comisiones.ipgh.org/CARTOGRAFIA/Premio/MSc_EN.html)

To date, member states of PAIGH are Argentina, Belice, Bolivia, Brasil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, Guatemala, Haití, Honduras, México, Nicaragua, Panamá, Paraguay, Perú, United States of America, Uruguay, and Venezuela.

## 17. Ideas / Information

1. If you are interested in educational material, then go to <https://www.osgeo.org/initiatives/geo-for-all/in-your-classroom/> where you can find software resources for your classroom. Also, go to "Resources" <https://www.osgeo.org/resources/> to get a guidance on how to use open source projects and tools.

2. From Carlo Lopez Vazquez  
Head of the Academic Liaison Committee  
Cartography Commission,  
Pan American Institute of Geography and History  
via Sergio Acosta y Lara  
([sergio.acostaylara@mtop.gub.uy](mailto:sergio.acostaylara@mtop.gub.uy))

I am pleased to contact you to announce the Call for Applications to the eighth edition of the "Prize for the Outstanding Master's thesis in Cartography, Geodesy and/or Geographic Information" organized by the Pan American Institute of Geography and History (PAIGH). The call will open 1st June 2022 and will close 30th June 2022. In a few words, Master's level students who graduated between 1st-January 2017 and 31st, December 2021 can apply. In addition, they should satisfy one of two conditions: a) be a citizen

3. Open source for open spatial data science by Anita Graser:

<https://anitagraser.com/2021/11/12/open-source-for-open-spatial-data-science/>



4. From Victoria Rautenbach  
([victoria.rautenbach@gmail.com](mailto:victoria.rautenbach@gmail.com))

We are honoured to announce the first winners of the *Pitch your research – GeoforAll student competition*.

Firstly, we want to thank all the students that submitted their work for the Pitch your research competition. The range of the topics and the quality of the work were impressive! Below are the winners:



### **Best Spanish presentations:**

1st Carla Cadena Valdivia

2nd Iván Eduardo Alonso Ramírez

3rd Ulises Francisco Ruiz Gomez

### **Best English presentation:**

1st Ashfak Mahmud

2nd Arvind Gauns

3rd Zebé Boshoff

### **Promising tools:**

Bence Péter Hrutka

Mohamed Shamroukh Mohamed

Nicholas De Kock

### **Open mapping award:**

Patrick Ken Kalonde

**5. Where free culture mixes with geospatial technologies.** Do you want to participate actively in the Free SIG Conference? Do you have a workshop or tutorial idea and want to teach it? Have you developed a project that uses free geospatial technologies or open data? Then get involved!

The Free GIS Conference is an annual meeting point where knowledge and experiences can be shared with professionals in the free geotechnology sector. This 14th edition the conference will take place on June 8 and 9 in person at the University of Girona.



The Free GIS Conference is a meeting point for people who share the same interest: the use and promotion of free geographic information systems and open data.

If you want to get involved then go to <https://www.jornadassiglibre.org/#intro> to get more.

6. From Sergio Acosta y Lara

([sergio.acostaylara@mtop.gub.uy](mailto:sergio.acostaylara@mtop.gub.uy))

4th Course-Contest Projects with students and gvSIG Batoví: epilogue

The Course-contest Geography Projects with Students and gvSIG Batoví is an initiative of the Ministry of Transport and Public Works of Uruguay (MTO), in coordination with the General Directorate of Secondary Education of the National Public Education Administration (DGES-ANEP) and the Plan Ceibal. But this year, for the first time, GeoLIBERO (the CYTED Network made up of around twenty research groups and a hundred leading Ibero American geomatics specialists) also participated.



To get more of this go to

<https://gvsigbatovi.wordpress.com/2021/12/20/4th-course-contest-projects-with-students-and-gvsig-batovi-epilogue/>

