UN-GGIM Academic Network

Tenth UN-GGIM: Europe Plenary - Session 8: Working in collaboration 23 November 2023

Prof. Maria Antonia Brovelli Politecnico di Milano

UN-GGIM Academic Network

 Coalition of recognized universities, research and education centers or equivalent, involved in the research, development and training on geospatial and land information and related matters.

Supporting UN-GGIM by:

 facilitating access globally to research and education capabilities, and

• respond to challenges and opportunities for UN-GGIM and related UN offices. Academion Network Strategion Support

UN-GGIM Academic Network

- 69 members
- 3 associate members
- 38 countries



Country	University	Primary PoC
Austria	University of Salzburg, Vienna University of Technology (TU Wien)	Josef Strobl, Georg Gartner
Belgium	Katholieke Universiteit Leuven (KU Leuven)	Joep Crompvoets
Denmark	Aalborg University Copenhagen	Jamal Jokar Arsanjani
Germany	University of Münster	Christoph Brox
Greece	National Technical University of Athens	Chryssy Potsiou & Charalabos Ioannidis
Italy	CNR IREA, Roma Tre University, Politecnico di Milano, Sapienza University of Rome	Paola Carrara, Roberto Bianchini, Maria Antonia Brovelli, Mattia Crespi
Kazakhstan	The Institute of Geography	Dinara Abiyeva
Kyrgyzstan	Kyrgyz State University of Construction, Transport and Architecture	Akylbek Chymyrov
The Netherlands	University of Twente	Menno-Jan Kraak
Portugal	NOVA Information Management School	Marco Painho
Russia	Moscow State Institute of International Relations	Igor Okunev
Serbia	University of Novi Sad	Miro Govedarica
Sweden	<u>Lund University</u>	Ali Mansourian
Spain	Universitat Politècnica de València	Carmen Femenia-Ribera & Gaspar Mora-Navarro
Turkey	Karabuk University	Ismail Rakip Karas
UK	Taylor and Francis Group *	Irma Britton
Ukraine	KNUBA – Kyiv National University	Roman Shults

Our Objectives

- Promote and foster collaboration between universities and research entities/groups to support the operation of UNGGIM-IGIF
- Encouraging members to undertake work that is able to contribute to the UN-GGIM mission and UN-SDGs.
- Forum of geospatial academics and researchers to advance competencies and qualifications needed for the UN-GGIM and supporting Member States;
- Capacity Building and developing an inventory of international education programs open to and recommended for UN-GGIM actors.

Current organization (2023-2024)

Executive Committee



Chair

Maria Antonia Brovelli

Politecnico di Milano
(Italy)



Deputy Chair

Songnian Li

Toronto Metropolitan University
(Canada)



Secretary

Ivana Ivánová

Curtin University

(Australia)

Advisory Board



Abbas Rajabifard University of Melbourne (Australia)



Christy Claudill
Carleton University
(Canada)



Georg Gartner Vienna University of Technology (TU Wien) (Austria)



Saeid Pirasteh Shaoxing University (China)

Regional Representatives



Africa

Serena Coetzee

University of Pretoria

(South Africa)



Americas

Rosario Casanova

Universidad de la República

(Uruguay)



Asia-Pacific

Huayi Wu

Wuhan University

(China)



Europe

Joep Crompvoets

Katholieke Universiteit Leuven
(Belgium)



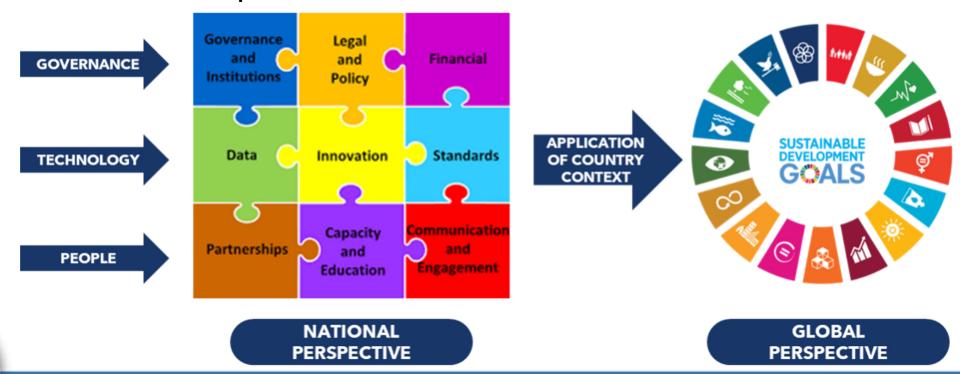
Chryssy Potssiou
National Technical University of
Athens
(Greece)



Michael Starek
Texas A&M University-Corpus
Christi
(USA)



 Academic Network Contributes across all UN-GGIM IGIF Strategic Priorities and Components





Special Issue "Trustful and Ethical Use of Geospatial Data"

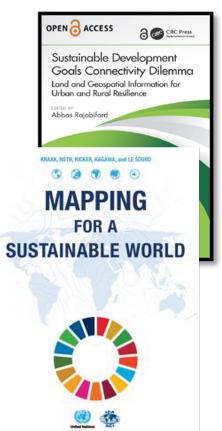
- Collaboration and joint activities with other UN-GGIM groups
- Annual UN-GGIM Side-events and Regional events:
 - 12th UN-GGIM Session 2022 "Trustful and Ethical Use of Geospatial Data: the Role of Academics"
 - 2nd WGGIC in Hyderabad, India 2022, "Bridging Academia and Industry in Geospatial Research, Education and Training" (jointly with PSN-GGIM Private Sector Network)
 - 13th UN-GGIM Session 2023, "GeoAl- Opportunities and Challenges", jointly with PSN-Private Sector Network,
 - GeoAl for Good Series
- ITU's GeoAl for Good series: e.g. Webinar on GeoAl Education, 14th June 2023



Book on 'SDGs Connectivity Dilemma', (Open Access), Lunched at UN-GGIM 2019

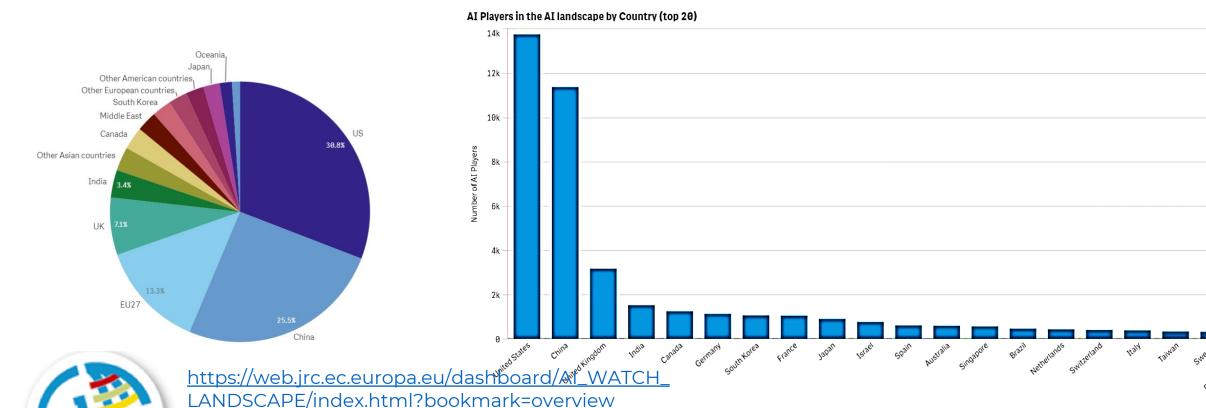
Book on 'Mapping for a Sustainable World' is applicable to IGIF

IJGI Special Issue: Trustful and Ethical Use of Geospatial Data (deadline: 31 December 2023)



GEOAI

Geomatics And Earth Observation Artificial Intelligence
 Al Players in the Al landscaper by Country (top 20)



GEOAI



A webinar with panel discussion on **GeoAl Education**

Workshop on 'Building a foundation for geospatial AI: defining a syllabus and body of knowledge'

A survey into the importance of GEOAI curriculum conducted in 2023 Participants: 70 Universities + 169 UN-GGIM Member States

GEOAI Syllabus for Developers

GEOAI Syllabus for Appliers

GEOAI Syllabus for Policy-makers

GEO Body of Knowledge

→ Side event: 29 May 2023

Al for Good Global Summit

Accelerating the United Nations
Sustainable Development Goals

Geneva, Switzerland, CICG 30-31 May 2024

REGISTER NOW

UN-GGIM | ACADEMIC NETWO







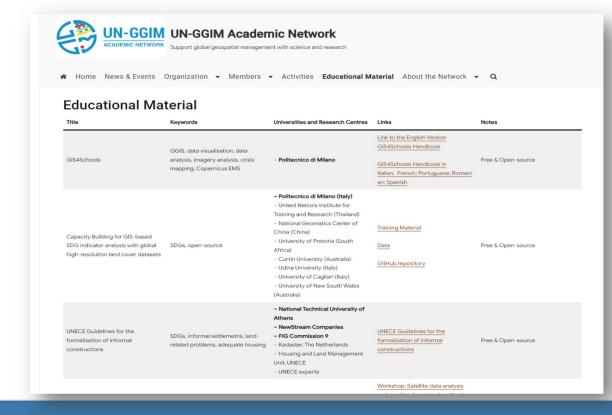
Invitation

The UN GGIM Academic Network and the UN Geospatial Network invite you to participate in a UN Mappers mapathon. A mapathon (literally "map marathon") is a collaborative effort to improve OpenStreetMap data, very often for humanitarian purposes, in places where OpenStreetMap data is scarce or non-existent. During the mapathon, volunteers from various backgrounds get together to remotely map a specific area using satellite imagery or aerial photographs. Anyone can participate in a mapathon, no prerequisite geography or geomatics knowledge is required.

The aim of this mapathon is to raise awareness of UN missions and how they use open data sources for them, and to inspire students to contribute to these efforts. In this UN Mappers activation we are going to map building footprints, supporting UNSMIL to ensure peace in Lybia. The data will be used to deliver a 3D digital replica of the city of Tripoli to allow peacekeepers to remotely visualize and analyze inaccessible locations on the ground, experience different kind of scenarios beforehand, and perform operational planning around a shared simulated sandbox.

Apart from learning how to contribute to data for UN missions, participating in the UN-GGIM Academic Network Mapathon will also give you insight into OpenStreetMap data and for which purposes it could be useful.

- http://unggim.academicnetwork.org/educational-material/
- Facilitate access to education via curated collection of resource contributed by UN-GGIM AN's members:



Capacity Building for GIS-based SDG indicator analysis with global high-resolution land cover datasets

SDGs, open-source

- Politecnico di Milano (Italy)

- United Nations Institute for

Training and Research (Thailand)

- National Geomatics Center of

China (China)

- University of Pretoria (South

Africa)

- Curtin University (Australia)

- Udine University (Italy)

- University of Cagliari (Italy)

– University of New South Wales

(Australia)

Training Material

Data

GitHub repository

Free & Open-source



UN-GGIM Academic Network – Europe Branch

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Prof. Joep Crompvoets
Katholieke Universiteit Leuven (KU Leuven)

UN-GGIM Academic Network – Europe branch

- To support the aims and objectives of UN-GGIM (Europe) by facilitating access to European research and education capabilities
- Strong collaboration links with other regions (Americas & Africa, Australia)
- Strong links with EuroSDR, AGILE, EuroGeographics
- Attending annual session of United Nations Committee on GGIM
- Attending annual plenary of UN-GGIM Europe

UN-GGIM Academic Network Europe – Activities

Recent/Future research related to the following topics:

- Authoritative data
- Geo-ethics
- IGIF Integrated Geospatial Information Framework
- FELA Framework for Effective Land Administration
- Data Ecosystems and Spatial Data Infrastructure
- Support EuroSDR EduServ courses

Findings transferred to UN-GGIM Working/Expert Groups

Thank You!