UN-GGIM Academic Network

• Academic Network is a Strategic Knowledge, Research and Training Arm of UN-GGIM.
• The Network is a 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.
Academic Network

Over 50 Members

Executives

Chair
Prof. Abbas Rajabifard
University of Melbourne
(Australia)

Deputy Chair
Prof. Maria Antonia Brovelli
Politecnico di Milano
(Italy)

Secretary
A/Prof. Daniel Paez
University of Los Andes
(Colombia)

Regional Entities

Africa
Prof. Serena Coetzee

Americas
Prof. Rosario Casanova

Asia-Pacific
Prof. Huayi Wu

Europe
Prof. Joep Crompvoets

Advisory Board

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(China)

Prof. Joep Crompvoets
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University of Maine
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University of New Brunswick
(Canada)

Prof. Menno-Jan Kraak
University of Twente
(Netherlands)

Prof. Jide Kefoniyi
Obafemi Awolowo University
(Nigeria)

Prof. Josef Strobl
University of Salzburg
(Austria)
ACADEMIC NETWORK EXPANDED ITS FOOTPRINT TO ALL CONTINENTS IN THE WORLD

%50 Growth in Membership during the last year

We currently have just over 50 members with presence in all regions of UN-GGIM
Workplan 2019-2020

- Building Technical Capacities for Resilience and Sustainability - Challenges and Opportunities
- Capacity Building
- Research Project
- Research and Training Support
- Technical Groups, Regional Groups and Sub-committees on UN-GGIM
- Book on SDGs
- Online Training Platform (OTP)
- Book on COVID-19
- Cadastral Template 2.0 for the SDGs
- Role of Geospatial Research & Innovation in Implementing the SDGs
Major Activities


- In response to COVID-19, the Academic Network released in May 2020, a call for contributions to an Open Access book called **COVID-19 Pandemic, Geospatial Information and Community Resilience: Global Applications and Lessons**

- The co-organization of UN GGIM Virtual Geospatial Summit 2020 - GIS response to Covid-19 (April 2020)

- The Academic Network held regular online advisory board meetings, and an emergency meeting to address members’ concerns and provide support during the current COVID-19 Pandemic (April 2020).

- **Academic Network has met with UN-GGIM UN Network** members to discuss collaboration and joint development programs and projects.

- Launch of the Book “**Sustainable Development Goals Connectivity Dilemma**” during the UNGGIM expert meeting in New York (August 2019).

- During this last year, the Academic Network **increased its membership in more than 20%**. Today we have over 50 active members, and now we have participation of universities and research centres from all continents and regions in the globe.
Developing an Online Training Platform (OTP)

- Web-based facility for any member of the academic network to provide online training (self-paced/asynchronous, synchronous/live)
- Focused on building capacity on key areas identified by UNGGIM secretary and member countries
- Containing a catalogue of existing courses worldwide
- Multi-language to ensure global reach of the platform
- Under the umbrella of the UNGGIM Academic Network structure (e.g. OTP sub-committee)

Proposed release date: 2021
Research Projects

The Role of Geospatial Research and Innovation in Implementing the SDGs

- Geospatial infrastructure for measuring and monitoring the SDGs
- Scenario analyses for SDGs with land use pattern projections
- Earth Observation and VGI for resilience, disaster management, and damage assessment
- High-Resolution Global Land Cover maps production, validation, and inter-comparison

Cadastral Template 2.0 for the SDGs

- Role of open spatial data on implementing the SDGs at local, national, and global levels
- Strategic framework for the enhancement of capacity building, the collection and sharing of geospatial data

UN Open GIS

- GI innovation supports achieving SDGs

Integrated Spatial Data Infrastructure for advancing the sustainable development goals

UN-GGIM ACADEMIC NETWORK

unggim.academicnetwork.org
Book on Sustainable Development Goals Connectivity Dilemma
Land and Geospatial Information for Urban and Rural Resilience

40 co-authors
21 Chapters
376 Pages
Launched on August 7, 2019
ISBN 9780367259358
COVID-19: Geospatial Information and Community Resilience (Open Access)

New Edited Volume from:
UN–GGIM Academic Network

Editors
Prof. Abbas Rajaibard
Dr. Daniel Paez
Irma Britton
Prof. Greg Fellente

The publisher and the editors invite expert authors to contribute chapters on topics related to COVID-19.

Scope:
While global communities and businesses are trying to respond to the COVID-19 pandemic, location information, mapping and GIS tools are widely used by health departments, safety and emergency management authorities and wider professionals around the world for gathering and analyzing data to support informed decisions. The use of location intelligence and GIS for understanding this outbreak and its relationship to infrastructure, population, businesses and other location-based information requires both a clear understanding of the relevant geospatial principles and the relevant aspects of data monitoring, planning and mapping. This book aims at covering these disciplinary intersections that happen when GIS and location intelligence are used in action to respond to the crises and plans for recovery. The experiences and the information included in this book will be a learning tool for communities to being prepared, making the right decisions, and keeping informed to be able to improve community resilience and respond to future crises.

Objectives:
This book will provide leading professionals and academic authors the opportunity to combine their observations, research, and best practices in their jurisdictions and organizations that are relevant to professional lines of work or supporting training and teaching modules focusing on COVID-19 applications. It will reassess the field, affirm successful approaches, and point to future possibilities. In doing so, the book will address the following objectives:

- Review foundational aspects of geospatial sciences and technologies for supporting intelligent decision-making for pandemic management.
- Identify a coherent set of tools, guidelines or standards to help researchers, data producers and practitioners and authorities utilize geospatial information for decision-making during various pandemic phases.
- Provide a resource on current best practices for utilizing location intelligence for local, regional, national and global level pandemic management.
- Reflect on the lessons learnt from COVID-19 pandemic, and present a forward-looking collection of ongoing research, development, and practice, with an emphasis on the role of location and geospatial science, that can improve the resilience of communities, society, economy and environment.
- Listen and broadcast the challenges, solutions, opinions and insights from industries regarding their experience through the pandemic.

Estimated Release in Feb 2021

+70 co-authors
50 Chapters
+500 Pages
COVID-19 Pandemic, Geospatial Information and Community Resilience: Global Applications and Lessons

A Call for Authors

Taylor & Francis Group

UN-GGIM Academic Network

Editors

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Prof. Greg Feliente

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While global communities and businesses are trying to respond to the COVID-19 pandemic, location information, mapping, and GIS tools are widely used by health departments, safety and emergency management authorities, and wider professionals around the world for gathering and analyzing data to support informed decisions. The use of location intelligence and GIS for understanding the situation and its relationship to infrastructure, population, businesses, and other location-based information, requires both a clear understanding of the relevant geospatial principles and the relevant aspects of data monitoring, planning, and mapping. This book aims at covering these disciplinary interactions that happen when GIS and location intelligence are used in action to respond to the crises and plans for recovery. The experiences and the information included in this book will be a learning tool for communities to being prepared, making the right decisions, and keeping informed to be able to improve community resilience and respond to future crises.

Objectives:

This book will provide leading professionals and academic authors the opportunity to combine their observations, research, and best practices in their jurisdictions and organizations that are relevant to professionals working in the field of location intelligence and GIS. It will reassess the field, affirm successful approaches, and point to future possibilities. In doing so, the book will address the following objectives:

1. Review foundational aspects of geospatial sciences and technologies for supporting intelligent decision-making for pandemic management.
2. Identify a coherent set of tools, guidelines, or standards to help researchers, data producers, and practitioners utilize geospatial information for decision-making during various phases of the pandemic.
3. Provide a resource on current best practices for utilizing location intelligence for local, regional, national, and global level pandemic management.

Table of Contents

The proposed book will consist of 4 sections:

1. The first section will contain chapters that set the stage and provide an overview of the principles and foundations for geospatial sciences and technologies. Chapters in this section could address topics including real-time geospatial data collection and analysis, population trajectory tracking and reasoning, geospatial fusion, location intelligence, and decision-making.
2. The second section will consist of contributions that present current approaches to managing global data where use cases and best practices will be emphasized. This section will serve as a resource for data producers, managers, and users to adopt current best practices in their own work for the pandemic management during prevention, preparation, response, and recovery phases.
3. The third section will consist of experiences and reflections obtained from the pandemic, as well as a forward-looking collection of ongoing development and future prospects across the entire spectrum of location and geospatial science, for building a more resilient community, society, economy, and environment.
4. The fourth and final section is unique, which will contain the observations from various industries, the challenges they faced, the solutions they came across, and the options and insights they had during this crisis. It will help build tight bonding between industries and academics and drive more industry-oriented research opportunities.

Submission and Important Dates:

- Chapter proposal: Submit Intention to Contribute (Abstract, outline, and short bio) by 10 May 2020
- Book proposals to publisher & Publishing Agreement by 15 May 2020
- Notification and invitation to submit full chapters by 25 May 2020
- Full chapter submission & Full manuscript for review by 15 July 2020
- Camera-ready manuscript by 31 August 2020
- Expected publication of the book by 30 October 2020

Please direct any inquiries and submissions to: Prof. Abbas Rajabifard RIE,Aus, FSSSI, Chair UN-GGIM Academic Network / Director, Centre for SDI and Land Administration, Melbourne School of Engineering / The University of Melbourne E: abbas.raj@unimelb.edu.au / T: +61 3 8344 0234

estimated release: Feb 2021