

Florence, Italy

## ICC 2021 final report

December, 18, 2021



Florence, Italy





Florence, Italy

## Submitted abstracts/papers

Abstract	465
Full papers	98
Total first submission	563
FP sent to IJC	16
Accepted for Advances	14
Accepted for Proceedings	58
Rejected	10



Florence. 14 • 18 DECEMBER 2021 Conference Publications of the Intr. Cartographic Association

30th International Cartographic Conference

Florence, Italy

## **Publications**



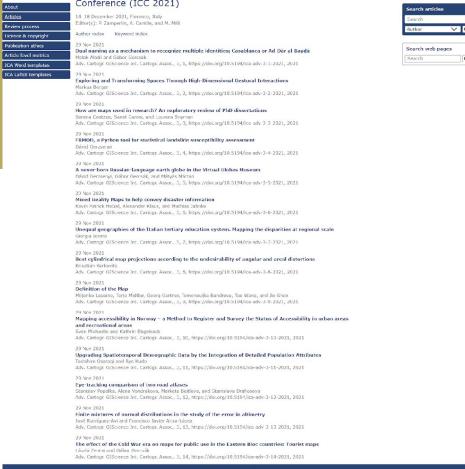
Advances in Cartography and GIScience of the ICA



### | ICA | ICA Publications | Copernicus Publications Volume 3, 2021 | 30th International Cartographic Conference (ICC 2021) 14 18 December 2021, Florence, Italy Editor(s): P. Zamperlin, A. Cantile, and M. Milli Author index Keyword index Dual naming as a mechanism to recognize multiple identities; Casablanca or Ad Där al Baydä Malak Alasli and Gabor Go Adv. Cartogr. GIScience Int. Cartogr. Assoc., 3, 1, https://doi.org/10.5194/ica-adv-3-1-2021, 2021 Exploring and Transforming Spaces Through High-Dimensional Gestural Interactions

Advances of ICA: 16

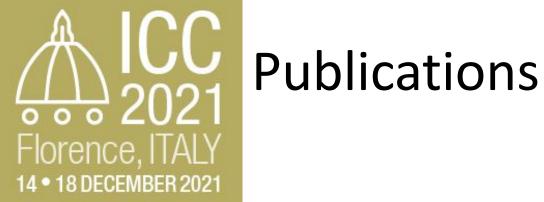
https://www.adv-cartogr-giscience-int-cartogr-a ssoc.net/3/index.html



Advances in Cartography and GIScience of the ICA



(C) All site content, except where otherwise noted, is licensed under the Creative Commons Attribution 1.0 License. Contact | Imprint | Data protection



Florence, Italy



Proceedings of ICA: 114

https://www.proc-int-cartogr-assoc.net/4/index .html



## **Publications**

30th International Cartographic Conference

Florence, Italy

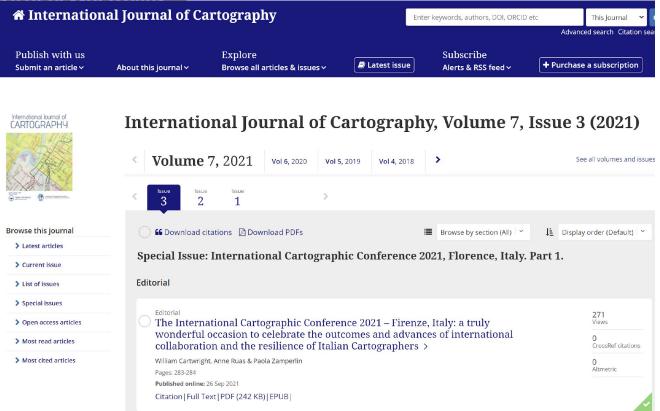


Proceedings of ICA: 320 + 23 (still missing publishing agreements)

https://www.abstr-int-cartogr-assoc.net/3/index.html



### **Publications**



International Journal of Cartography

Volume 7, Issue 3 (2021)

Special Issue: International Cartographic Conference 2021, Florence, Italy. Part 1

https://www.tandfonline.com/toc/tica20/current

Volume 8, Issue 1 (2022)

Special Issue International Cartographic Conference 2021, Florence, Italy - part 2 In preparation



Florence, Italy

## Sessions

### **PUBLIC SESSION**

Click on the name of the session to open the live streaming. Timing is in CET (GMT+1).

It's not mandatory to install the WebEx software, the platform is accessible also by selecting on your browser the "Open in my browser" option.

In case your brownser will request a password to access the sessions, please fill with #ICC2021

	Aula Magna	Room A101		Room A103	Room A105	Room A106	Room A209	Room A210
9:00 12:30	7	Pre-Conference Work Visualization of Dynan Phenomenons and Processes on Web Ma	ic Ma Re ps Ca	e-Conference Workshop apping the Ottoman salm: Travelers, travelers, and chaeologists	Pre-Conference Workshop Geospatial approaches to combating Covid-19 Accessible only for already registered participants	Pre-Conference Workshop 24th ICA Workshop on Map Generalisation and Multiple Representation	Pre-Conference Workshop Sharing cartographic knowledge Accessible only for already registered participants	Pre-Conference Workshop Disaster risk reduction (DRR) progress for cartography in Big Data era
14:00 18:45				e-Conference Workshop ap Design for Atlases		Map Generalisation and Multiple Representation	Pre-Conference Workshop Geospatial Semantics Accessible only for already registered participants	
·			TUES	SDAY, DECEMBER	14			
	Aula Magna	Room A	101					
9:00 11:00		World Cartogra	ohic Forum	n				
			WEDN	ESDAY, DECEMBEI	₹ 15			
	Aula Magna	a						
10:15 11:15	Keynote Session: Cartography In An Age Digital Transformation	e Of						
14:45 16:30	Urban Data Analytics based on Earth Obser and Artificial Intelligen Latitudo 40, Geospaci and Business Innovati	rvation ice: ial Data						
17:00	Panel Session:	hhaarda						
			THUR	SDAY, DECEMBER	16			
	Aula Magna	1						
9:00 10:45	National Mapping, Na Geospatial and Natio Statistical	ational onal						
11:15 13:00	Agencies Day of Collaboration and Information Sharing							
14:45 16:30								
			FRIE	DAY, DECEMBER 1	7			
	Aula Magna							
10:15 11:15	Keynote Session: Open Map Knowledg ICA's Contribution To SDGs	ge – o The						
14:45 16:30	14:00-19:00 Panel session							
10.20	(in Italian)							

2 keynotes4 Special panel sessions80 technical sessions



Florence, Italy

### ive Session

Click on the name of the session to open the live streaming, Timing is in CET (GMT+1).

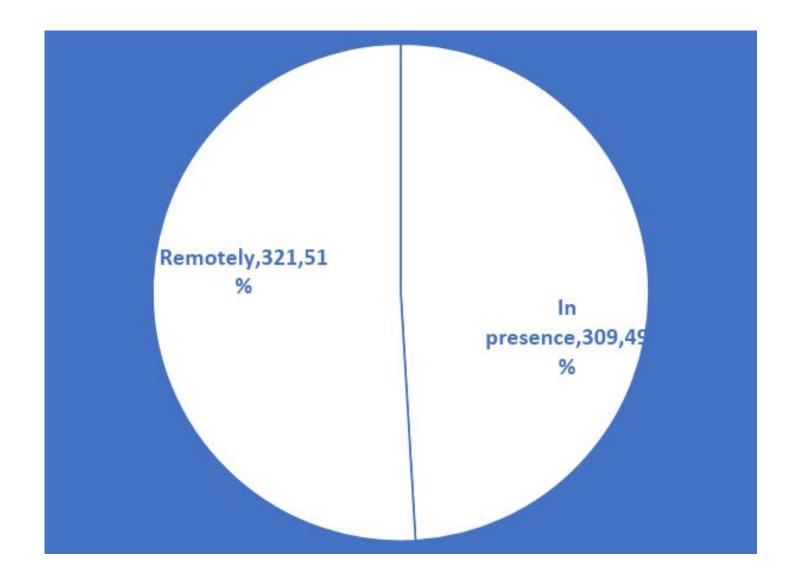
It's not mandatory to install the WebEx software, the platform is accessible also by selecting on your browser the "Open in my browser" option.

In case your browners will request a password to access the sessions, please fill with #ICC2021

			ONDAY, DECEMBER				
	Aula Magna	Room A101	Room A103	Room A105	Room A106	Room A209	Room A210
9.00 12:30		Pre-Conference Workshop Visualization of Dynamic Phenomenons and Processes on Web Maps	Pre-Conference Workshop Mapping the Ottoman Realm: Travelers, Cartographers and Archaeologists	Pre-Conference Workshop Geospatial approaches to combating Covid-19 Accessible only for already registered participants	Pre-Conference Worksh 24th ICA Workshop on N Generalisation and Mult Representation		Pre-Conference Workshop Disassler risk reduction (DRR) progress for cartography in Big Data era
14:00 18:45			Pre-Conference Workshop Map Design for Atlases	- Participanto	Map Generalisation and Multiple Representation	Pre-Conference Workshop Geospatial Semantics Accessible only for already registered participants	
		TU	ESDAY, DECEMBER	R 14			
	Aula Magna	Room A 101					
9:00 11:00		World Cartographic Fo					
			NESDAY, DECEMBI				
8:45	Aula Magna	Room A101 T01-1. Art in Cartography		Room A105 T03-1, Cartographic	Room A106 T05-1, Cartography for	Room A209 T06-1. Cognition in Geovisualization	Room A210 T07-1, Education and
10:15	Keynote Session:		, , , , , , , , , , , , , , , , , , , ,	T03-1. Cartographic Heritage Into the Digital Domain	T05-1, Cartography for Early Warning and Crisis Management	Geovisualization	T07-1. Education and Continuous Learning i Cartography
11:15	Cartography In An Age Of Digital Transformation						
11:15 11:45				Coffee Break	1		
11:45 13:15		T01-2. Art in Cartography		T03-2. Cartographic Heritage Into the Digital Domain	T04-1. Cartography and Children	T06-2. Cognition in Geovisualization	T07-2. Education and Continuous Learning i Cartography
14:45 16:30	Urban Data Analytics platform based on Earth Observation and Artificial Intelligence: Latitudo 40, Geospacial Data and Business Innovation	T08-1. Generalization an Multiple Representation	d T09-1. Artificial Intelligence in Mapping	T03-3. Cartographic Heritage Into the Digital Domain	T04-2. Cartography and Children	T06-3. Cognition in Geovisualization	T07-3. Education and Continuous Learning i Cartography
16:30				Coffee Break			
17:00 17:00 18:45	Panel Session: Geospatial Data, Dashboards, Analytics and Scientific Communication - Lessons Learned from the COVID-19 Pandemic	T08-2. Generalization ar Multiple Representation	nd T09-2. Artificial Intelligence in Mapping	T03-4. Cartographic Heritage Into the Digital Domain	T05-2. Cartography for Early Warning and Crisis Management	T6-4. Cognition in Geovisualization	T07-4. Education and Continuous Learning I Cartography
		THL	JRSDAY, DECEMBE	R 16			
9:00	Aula Magna	Room A101 T11-1. History of	Room A103	Room A105	Room A106 T15-1, Maps and	Room A209 T14-1. Map Production and	Room A210 T10-2. Social Sensing
10:45	National Mapping, National Geospatial and National Statistical Agencies Day of	Cartography T11-2. History of	T07-5. Education and Continuous Learning in Cartography T02-3. Atlases	T13-1. Map Design	Accessibility T15-2. Maps and	Geoinformation Management T14-2. Map Production and	and Visual Analytics  T10-3. Social Sensing
13:00	Collaboration and Information Sharing	Cartography T11-3. History of		T13-2. Map Design	Accessibility T17-1, Marine	Geoinformation Management	and Visual Analytics
16:30		Cartography T11-4, History of	T12-1. Location Based Services and Ubiquitous Mapping T12-2. Location Based	T13-4. Map Design	Cartography T20-1. Planetary	Geoinformation Management T14-4. Map Production and	Mapping T16-2. Participatory
18:45		Cartography	Services and Ubiquitous Mapping		Cartography	Geoinformation Management	Mapping
		FI	RIDAY, DECEMBER	17			
	Aula Magna	Room A101	Room A103	Room A105	Room A106	Room A209	Room A210
8:45 10:15		T18-1. Mountain Cartography	T23-1. Toponymy in Cartography	T25-1. Cartography and Sustainable Development	T21-1. Spatial Data Infrastructure and Standards	T34-1. Use, User, and Usability	T22-1. Sensor-Driven Mapping
10:15 11:15	Keynote Session: Oper Map Knowledge – ICA' Contribution To The SDGs	n s					
11:15 11:45		1		Coffee Break		'	
11:45 13:15		T18-2. Mountain Cartography	T23-2. Toponymy in Cartography	T25-2. Cartography and Sustainable Development	T19-1. Open Geospatial Data and Technologies	T34-2. Use, User, and Usability	T29-1. Mapping Urban Environments
14:45 16:30	14:00-19:00 Panel session (in Italian)	T33-1. Augmented and Virtual Realities in Cartography	T24-1. Cartography and Public Health	T25-3. Cartography and Sustainable Development	T21-2. Spatial Data Infrastructure and Standards	T34-3. Use, User, and Usability	T22-2. Sensor-Driven Mapping
16:30	Spatial information at the heart of the			Coff	ee Break		
17:00	Country's recovery, the	T33-2. Augmented and Virtual Realities in	T24-2. Cartography and Public Health	T25-4. Cartography and Sustainable Development	T19-2. Open Geospatial Data and Technologies	T34-4. Use, User, and Usability	T29-2. Mapping Urban Environments
17:00 17:00 18:45	renewed role of the Italian Regions	Virtual Realities in Cartography	r dollo ribalui				
17:00	renewed role of the Italian Regions	Cartography	TURDAY, DECEMBE	R 18			
17:00	renewed role of the Italian Regions	Cartography SAT Room A103	TURDAY, DECEMBE	Room A106			
17:00 18:45 8:45 10:15	Room A101 T32-1. Military Mappi	SAT  Room A103  T28-1. Cartography in Digital Humanities	Room A105 T17-2. Marine Cartography	Room A106 T33-3. Augmented ar Virtual Realities in Cartography			
17:00 18:45	Italian Regions  Room A101	SAT  Room A103  T28-1. Cartography in Digital Humanities	Room A105 T17-2. Marine Cartography	Room A106 T33-3. Augmented ar Virtual Realities in			



Florence, Italy



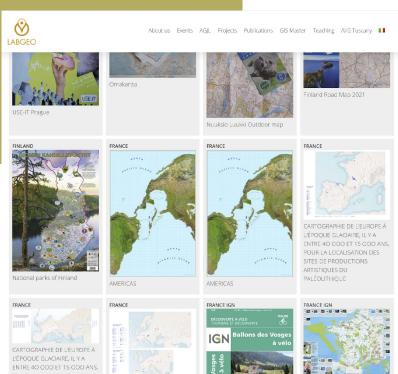
$\mathbb{A}$
$\square$
000 4
Florence, I
20+6

Florence, Italy

	Country	in-person	online	tot
I	Total Total	309	321	630
h	ITALY	59	41	100
	CZECH REPUBLIC	34	5	39
В	USA	33	31	64
	GERMANY	29	27	56
	POLAND	15	3	18
	AUSTRIA	12	12	24
	FRANCE	12	12	24
	SWITZERLAND	11	17	28
	HUNGARY	11	10	21
	UNITED KINGDOM	8	2	10
	SPAIN	7	9	16
	RUSSIA	7	7	14
	SLOVENIA	6	1	7
	THE NETHERLANDS	6	1	7
	ROMANIA	6		6
	CROATIA	5	3	8
	BULGARIA	5	1	6
	UNITED ARAB EMIRATES	5		5
	CHILE	4	1	5
	FINLAND	3	6	9



## International Cartographic Exhibition



As in its previous editions, the ICE was structured according to seven categories:

- Maps on Panels (MP),
- Charts on Panels (CP),
- Atlases (AT),
- Digital Products (DP),
- Digital Services (DS),
- Educational Cartographic Products (EP),
- Other Cartographic Products (OC).

In addition, for ICE2021 the Local Organizing Committee (LOC) decided to welcome additional cartographic materials in an Out-of-Competition section (Additional Products), with the aim of granting visibility to as many cartographic products as possible, even if exceeding the set number of entries officially being accepted from each ICA member, without compromising the fairness of the contest.

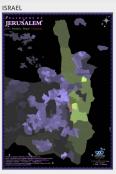




About us Events AGJL Projects Publications GIS Master Teaching AllG Tuscany



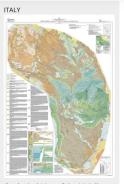
State of Israel - Peripherality Cluster by Local Authorities



Religions of Jerusalem



Tuscany Regional Map



Geological Map of the Majella



Mounts Regional Natural Park



1501 JOG/G Map Series





Overall, the 32 participants (National Members and Affiliate Members) were able to propose the following products:

- 240 maps on panels
- 31 charts
- 42 digital products
- 16 digital services
- 33 atlases
- 22 educational products
- 26 other cartographic products

# Florence, ITALY 14 • 18 DECEMBER 2021







Baia California



Analyzing Active Volcanoe:



2020 Population Distribution in the United States and Puerto Rico



n in



Sanctuary II: Embracing Strzelecki National Park, Flinder Island, Tasmania

A total amount of 180 panels were employed to display the 271 hang-up cartographic products, with a total linear extent of 180 m. 92 out of the 271 products exceeded the maximum width extent communicated through the guidelines, and 2 of them exceeded the maximum height extent.

A total amount of 81 printed products were exhibited on tables and shelves for a total linear extent of 20 metres. 6 workstations were prepared to show 58 cartographic digital products and services.

Unfortunately, travel bans, quarantine periods and other Visa delays, all related to the ongoing pandemic, prevented the products of 10 participants from being exhibited in due time for the formal inauguration, and the products of 7 out of them to be physically exhibited. Sweden, Canada, Israel managed to realize a partial exhibition, Catalonia, China, USGS, South Africa were not able to send a substitute neither able to send their products in time for the event and had to completely withdraw, formally or *de facto*.



Florence, Italy

## Virtual ICE

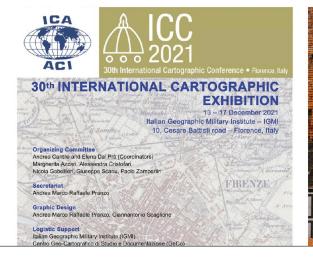


### International Cartographic Exhibition

30th International Cartographic Conference - ICC 2021 13-18 December 2021 | Florence, Italy

The International Cartographic Exhibition in Florence is organized as part of the 30th International Cartographic Conference (ICC).

All exhibits are displayed at the Italian Geographic Military Institute from 14th to 18th December 2021, and virtually at www.geografia-applicata.it.





http://www.geografia-applicata.it/en/icc-2021-virtual-exhibition/