ICA Commission on the User Experience

2021 Business Meeting
15 December | Florence, Italy



IMY

Sustainability Open source

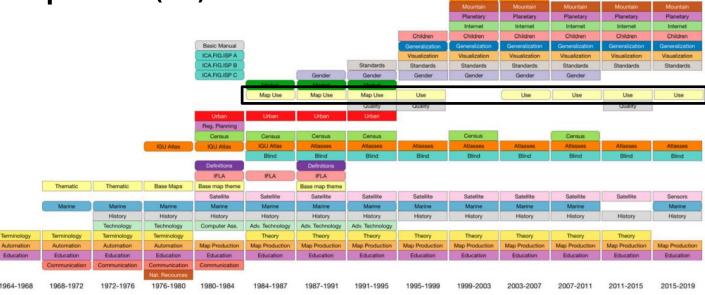
First established in 1984 as the **Map Use** Commission

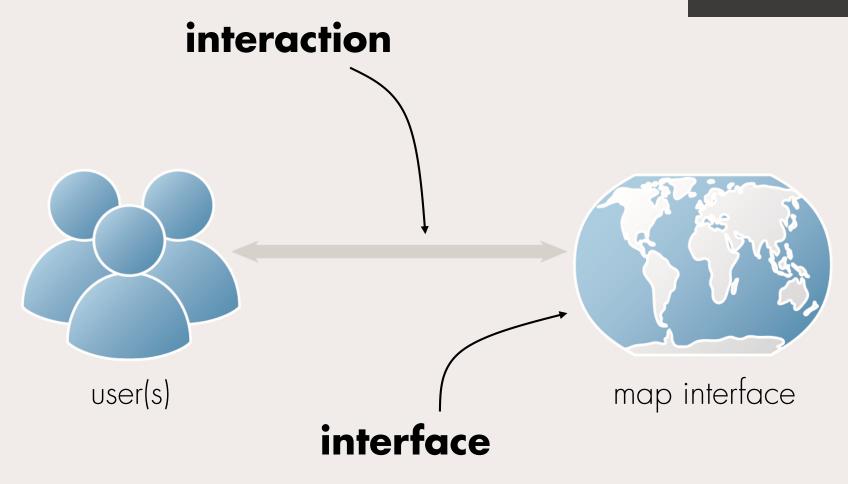
continual commission status since except 1999-2003

Refreshed in 2003 as the Use & User Issues Commission

added treatment of usability & user-centered design

Currently the **User Experience (UX)** Commission

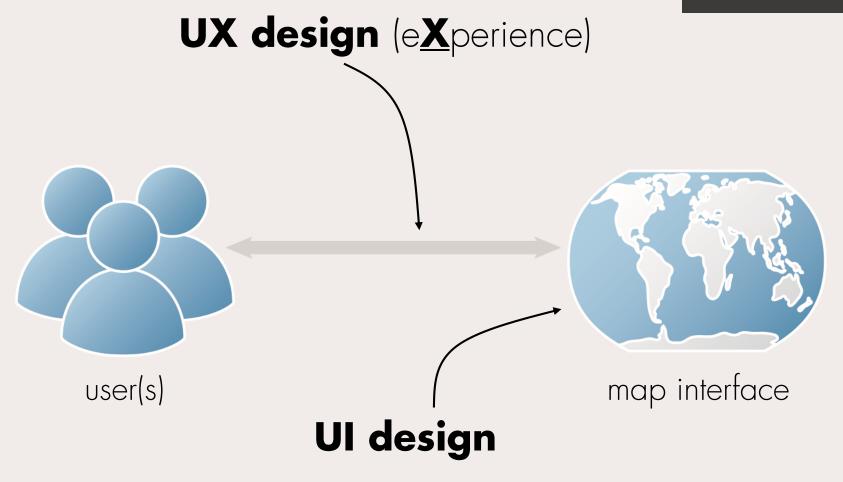






humans experience interactions map interface user(s) humans use interfaces





Creative Director

Client-side Developer

Usability Engineer

Web Designer

UI/UX Designer Cartographer

Visual Analyst

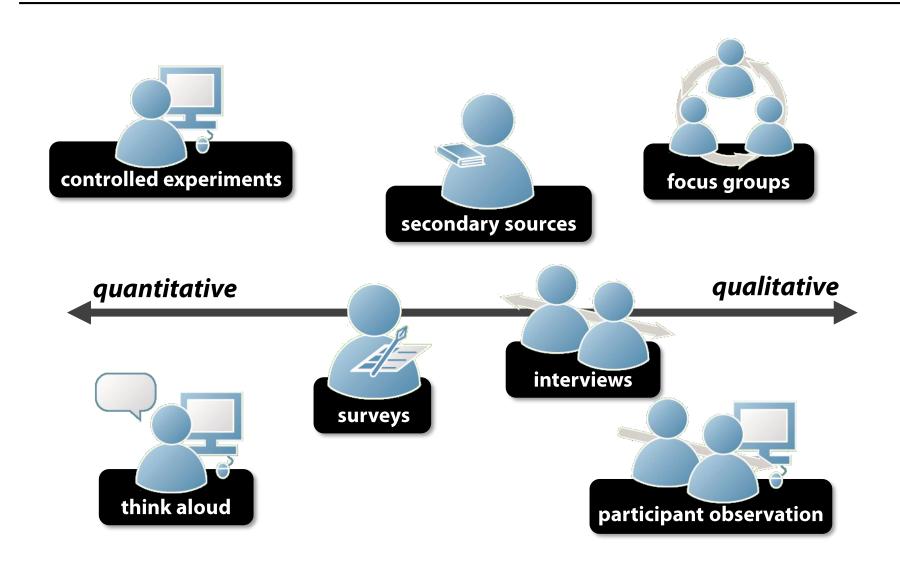
Graphic Designer

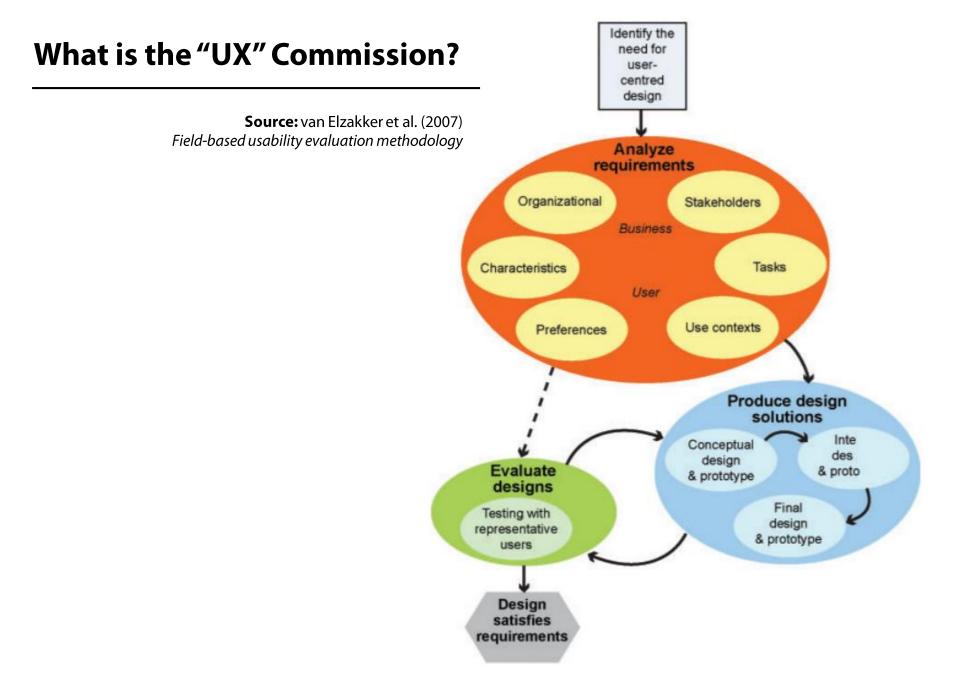
Information Architect

Artist

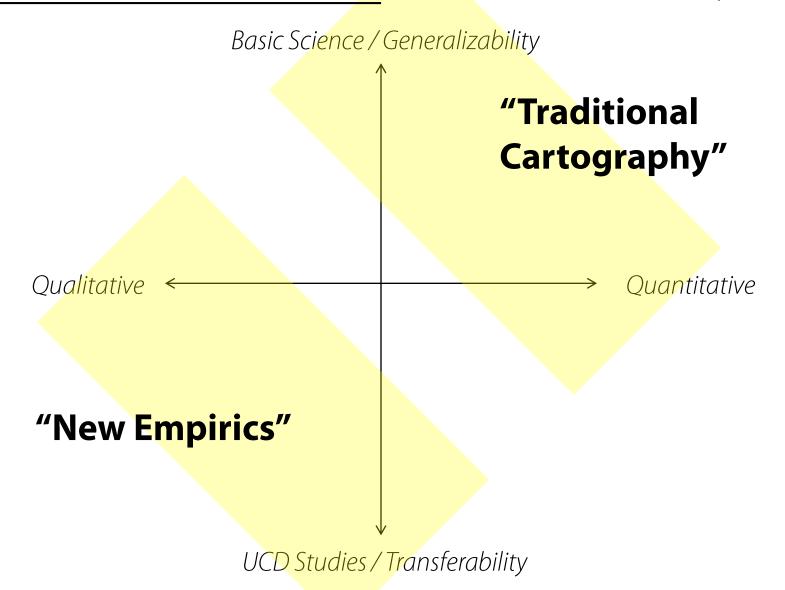
Data Scientist

User-centered Designer





Source: Roth et al. (2017) *User studies in cartography: Opportunities for empirical research on interactive maps & visualizations*



Leadership: 2011–2015



Corné van Elzakker | Netherlands Chair: 2007–2015



David Forrest | United Kingdom Vice-Chair: 2007–2015



Kristien Ooms | Belgium Vice-Chair: 2011–2015



Alex Pucher | Austria Vice-Chair: 2007–2015

Leadership: 2015–2019



Kristien Ooms | Belgium

Chair: 2015-2018

Vice-Chair: 2018–2019



Alena Vondráková | Czech Republic Vice-Chair Webmaster



Robert Roth | USA Vice-Chair: 2015–2018 Chair: 2018–2019



Artemis Skarlatidou | United Kingdom Vice-Chair

Leadership: 2019–2023



Robert Roth | USA Chair: 2018–2023 Vice-Chair: 2015–2018



Luciene Delazari | Brazil Vice-Chair



Katarzyna Słomska-Przech | Poland Vice-Chair



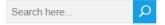
Zdeněk Stachoň | **Czech Republic** Vice-Chair

Terms of Reference for 2019–2023

- **1. Website:** Maintain & expand the commission website on UX design & user issues: https://use.icaci.org/.
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UX: Designing the User Experience

A Commission of the International Cartographic Association





AIMS & ORGANISATION ~

ACTIVITIES ~

RESOURCES ~

BIBLIOGRAPHY

MEMBERS & CONTACT

Latest Posts

Registration is mandatory for participation in the ICC pre-conference workshops.

The workshops are organized at the University of Florence. Due to COVID19 pandemics, access to the University of Florence is allowed only with a QR code issued by Unifi to authorized persons (for reasons of contagion control). So BEYOND the...

READ MORE

Uncategorized

Sign-up to our listsery!!!

ICC 2021 Florence

ICC 2021, 30th ICC will be organized as a hybrid event on 14-18th December in Florence, Italy. The UX Commission will co-host a workshop entitled "Immersive Cartography / Cartography for Immersive Environments" on Monday December 13th (2 pm). The event...

READ MORE

Uncategorized

ICA Joint Commission Workshop – Usability 4All

Luciene Delazari | # 24/09/2020

Date: Monday November 23, 2020. Location: Federal University of Paraná- Curitiba – Brazil We invite papers to be submitted to a joint Commission Workshop of the Commission on User Experience together with Commission on Cartography and Children, Commission on Maps...

DEAD MODE

News

Search here

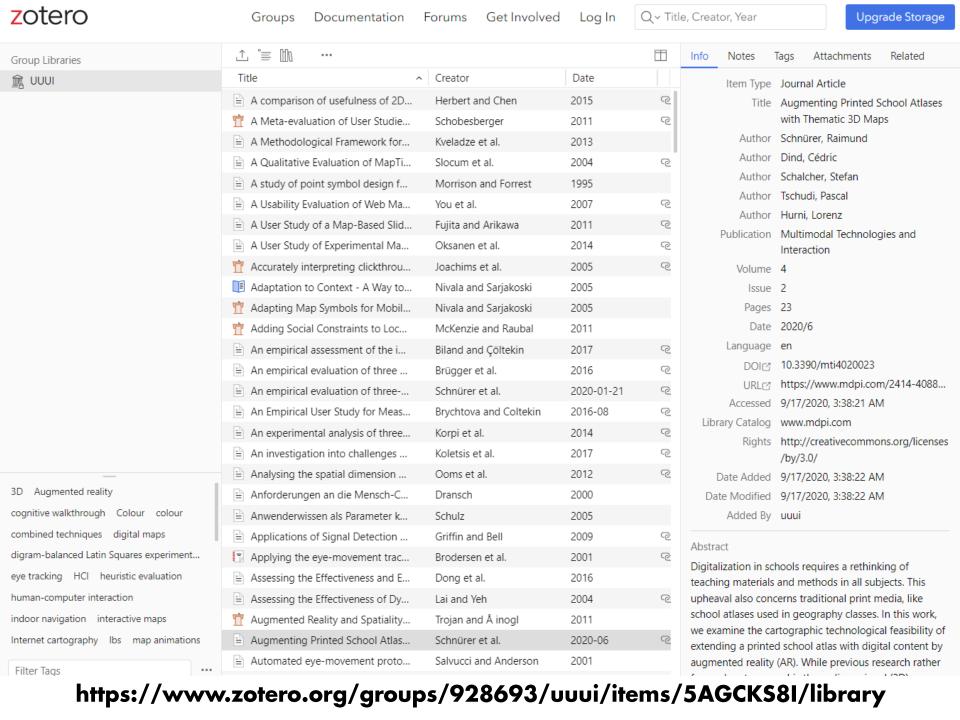
- Registration is mandatory for participation in the ICC pre-conference workshops.
- ICC 2021 Florence
- ICA Joint Commission Workshop Usability 4All
- Postponed: ICA Joint Commission Workshop on Analytical Reasoning for Cartography, Visualization, and Design
- First Call For Papers: 2020 ICA Workshop on Analytical Reasoning

Recent Comments

 Eric Swett on Workshop on lessons learned from volunteers' interactions with geographic citizen science applications, 27 April 2018, London

Archives

- November 2021
- October 2021
- · September 2020
- May 2020
- February 2020



What is the Plan for 2019-2023?

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Modules of Training Workshops

Search here...



3rd Edition – Interactive Training Workshop on 'Conducting and Designing User Studies'

@ICCGIS, Albena (Bulgaria) June 15, 2016

The invitation to this workshop can be found here.

Module 1:

Methods and techniques of use, user and usability research in geo-information processing and dissemination.

Kristien Ooms, Ghent University

The first module will introduce you to use, user & usability research in geo-information processing and dissemination. Reasons for doing such research are to understand and explain how GI tools work for their users and to design more usable tools. In this first module, the focus will be on the latter. The concept of User Centred Design will be presented and an overview will be given of the most commonly applied research techniques, along with tips & tricks on how and when to use them. Experiences will be shared in interactive sessions. \Box

See slides ->

Module 2:

Quantitative versus Qualitative user research: selecting the right approach.

Robert Roth, University of Wisconsin Madison

When setting up a user study in cartography and GIS, it can be a difficult task to select the right method from the long list of available options. Methods commonly are divided between quantitative and qualitative approaches with an increasing recommendation to mix these methods across a

News

- Joint Pre-Conference Workshop Immersive
 Cartography program
- Registration is mandatory for participation in the ICC pre-conference workshops.
- ICC 2021 Florence
- ICA Joint Commission Workshop Usability
 4All
- Postponed: ICA Joint Commission Workshop on Analytical Reasoning for Cartography, Visualization, and Design

Recent Comments

 Eric Swett on Workshop on lessons learned from volunteers' interactions with geographic citizen science applications, 27 April 2018, London

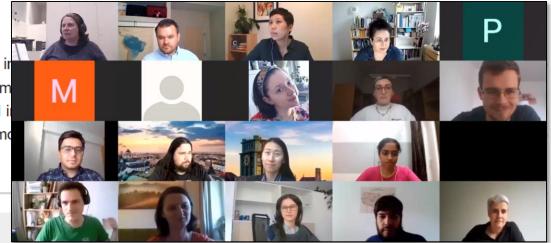
Archives

- December 2021
- November 2021
- October 2021

Workshop on Adaptable Research Methods For Empirical Research with Map Users

Thursday 6 May 2021

Everyone globally has been affected by the COVID-19 in planned research projects as a result of restrictions on m despite these challenges, people have been successful in experiences in adapting user research methods for remohelp each other solve unsolved problems.



Session 1

22:00-22:20 (AEST) 14:00-14:20 (CET) 8:00-8:20 (US EST) 5:00-5:20 (US PST)	Experiences with Collaborative Map Use Interface in Remote Courses of Maritime Spatial Planning Pyry Kettunen, Christian Koski, Mikko Rönneberg 15 minutes presentation + 5 minutes discussion, slides, recording
22:20-22:40 (AEST) 14:20-14:40 (CET) 8:20-8:40 (US EST) 5:20-5:40 (US PST)	Investigating Differences in Perception & Cognition of Map Symbols Through Laboratory & Online User Experiments Bradley Denney, Amy L. Griffin, Zdenêk Stachoň 15 minutes presentation + 5 minutes discussion, slides, recording
22:40-23:00 (AEST) 14:40-15:00 (CET) 8:40-9:00 (US EST) 5:40-6:00 (US PST)	Performing cartographic visual search experiments online: opportunities and challenges Vassilios Krassanakis, Anastasios L. Kesidis, Athina Pappa, Loukas-Moysis Misthos 10 minutes presentation + 10 minutes discussion, slides

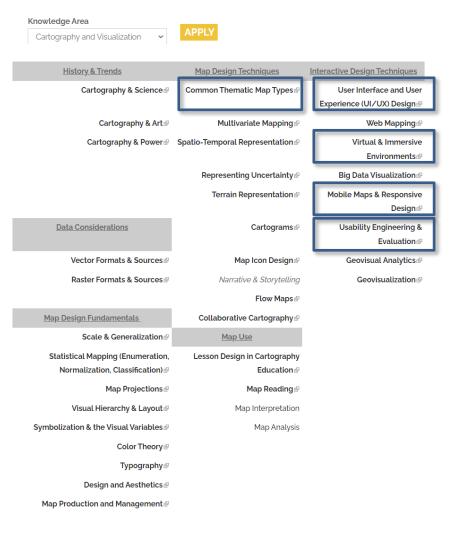
https://cogyis.icaci.org/21_adaptable.html







All Topics https://gistbok.ucgis.org/



- I. Roth RE. 2017. **User Interface & User Experience Design.** In: *The Geographic Information Science & Technology Body of Knowledge* (Ed: J Wilson). University Consortium of Geographic Information Science.
- Ooms K and A Skarlatidou. 2018. Usability engineering and evaluation. In: The Geographic Information Science & Technology Body of Knowledge (Ed: J Wilson). University Consortium of Geographic Information Science.
- Ricker & Roth. 2018. Mobile maps & responsive design. In: The Geographic Information Science & Technology Body of Knowledge (Ed: J Wilson). University Consortium of Geographic Information Science.
- 4. Stachoň, Kubicek, & Herman. 2020. **Virtual & Immersive Environments**. In: *The Geographic Information Science & Technology Body of Knowledge* (Ed: J Wilson). University Consortium of Geographic Information Science.
- Golebiowska, Korycka-Skorupa, & Slomska-Przech. 2021.
 Common Thematic Map Types. In: The Geographic Information Science & Technology Body of Knowledge (Ed: J Wilson). University Consortium of Geographic Information Science.

Keywords

Topic Description
 References
 Author and citation info
 Instructional Resources
 Related Topics

CV-38 - Usability Engineering & Evaluation

In this entry, we introduce tenets of usability engineering (UE) and user-centered design (UCD), interrelated approaches to ensuring that a map or visualization works for the target use. After a general introduction to these concepts and processes, we then discuss treatment of UE and UCD in research on cartography and geographic visualization. Finally, we present a classification of UE evaluation methods, including a general overview of each category of method and their application to cartographic user research.

Author and Citation Info:

Ooms, K. and Skarlatidou, A. (2018). Usability Engineering and Evaluation. *The Geographic Information Science & Technology Body of Knowledge* (1st Quarter 2018 Edition), John P. Wilson (ed). DOI: 10.22224/gistbok/2018.1.9

This entry was first published on March 9, 2018. No earlier editions exist.

Topic Description:

- Definitions
- 2. Overview
- 3. UE Approaches and Applications
- 4. UE Evaluation Methods

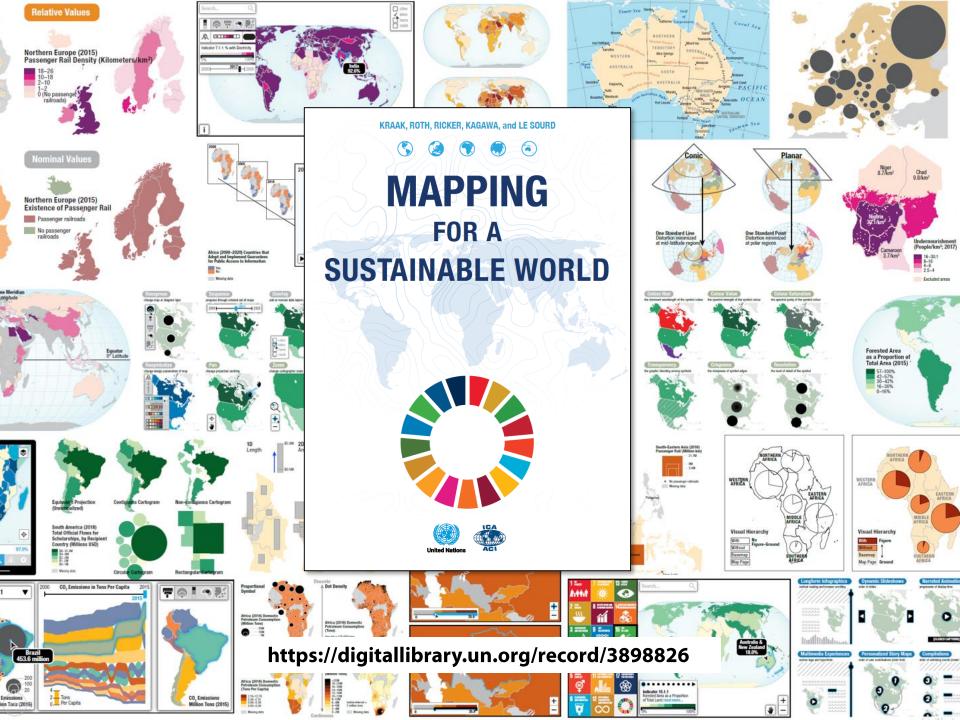
1. Definitions

evaluation: the assessment of the extent to which a product, mapping or otherwise, supports user needs

conceptual development: the outline of a product's functional requirements prior to product development, as identified from the work domain analysis

debugging: the process of fixing errors and optimizing code before final release of a product to the end users

Source: Ooms & Skarlatidou (2018) https://gistbok.ucgis.org/bok-topics/usability-engineering-evaluation



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- **6. ICA Sessions:** Organize sessions on user studies and UX design at the 2021 & 2023 International Cartography Conferences.







https://www.youtube.com/playlist?list=PLGqsHedNsYJlaYDAL-IQU8-_rmhACTR2o

ICA Joint Commission

Workshop Usability 4All



Inclusive Design

Recognize exclusion; solve for one, extend to many; learn from diversity

Recognize exclusion

Designing for inclusivity not only opens up our products and services to more people, it also reflects how people really are. All humans grow and adapt to the world around them and we want our designs to reflect that.



Solve for one, extend to many

Everyone has abilities, and limits to those abilities. Designing for people with permanent disabilities actually results in designs that benefit people universally. Constraints are a beautiful thing.



Learn from diversity

Human beings are the real experts in adapting to diversity. Inclusive design puts people in the center from the very start of the process, and those fresh, diverse perspectives are the key to true insight.



Commission on User Experience

Commission on Cartography and Children

Commission on Maps and Graphics for Blind and Partially Sighted People

Commission on Open Source Geospatial Technologies

Programming:

Morning - ICA Chairs presentations

Afternoon - Presentation of selected papers.

Send your contribution (max 2 pages, pdf format) until October 10th to luciene@ufpr.br

	Permanent	Temporary	Situational	
Touch	Ā			
9	One arm	Arm injury	New parent	
See	€ Blind	Cataract	Distracted driver	
Hear	Deaf	Ear infection	Bartender	
Speak Non-verbal		Laryngitis	Heavy accent	



Source: Microsoft Inclusive Design Tooklit https://www.microsoft.com/design/inclusive/





Pre-Conference Workshop Immersive Cartography / Cartography for Immersive Environments

Monday, December 13 - Firenze, Via Laura, 48 Room A2.09 Webex link:

https://unifirenze.webex.com/unifirenze/j.php?MTID=mcc5491e2b25e30d8e585633b5a33a831

14:00 - 14:10 Introduction

- Commission on User eXperience (UX) Zdeněk Stachoň
- Commission on Cognitive Issues in Geographic Information Visualization Petr Kubíček

Part 1 - Keynotes (Petr Kubíček, Chair)

14:10 - 14:30

Alex Klippel - Thinking within - explorations toward a science of 14:30 - 14:50

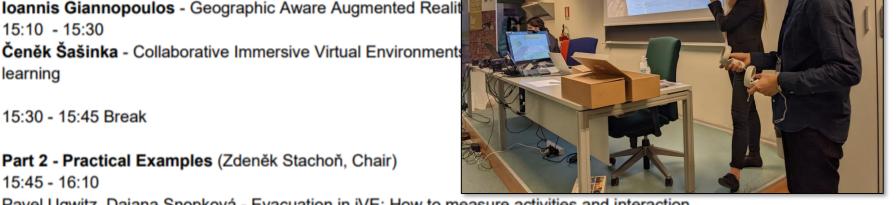
Arzu Coltekin - Extended (virtual, augmented, mixed) reality in 14:50 - 15:10

Ioannis Giannopoulos - Geographic Aware Augmented Realit 15:10 - 15:30

Čeněk Šašinka - Collaborative Immersive Virtual Environments learning

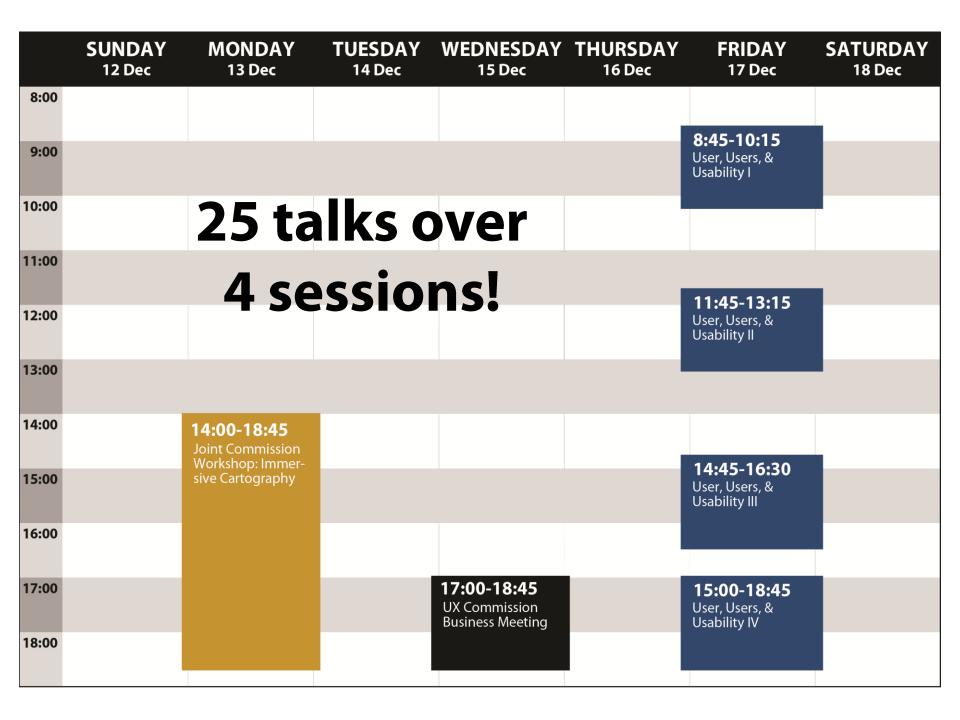
15:30 - 15:45 Break

15:45 - 16:10









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- 7. UX Research Agenda: Jointly develop a research agenda on map UX.
- **8. User Studies Handbook:** Jointly organize an overview reference on designing & conducting user studies in cartography.







User studies in cartography: opportunities for empirical research on interactive maps and visualizations

Robert E. Roth ¹ ^a, Arzu Çöltekin ¹ ^b, Luciene Delazari^c, Homero Fonseca Filho ¹ ^a, Amy Griffin ¹ ^e, Andreas Hall ¹ ^f, Jari Korpi^f, Ismini Lokka^b, André Mendonça ¹ ^g, Kristien Ooms ¹ ^h and Corné PJ.M. van Elzakkerⁱ

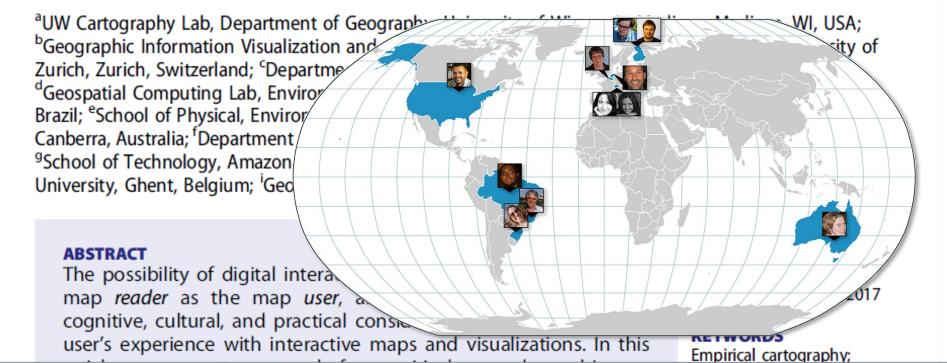


Table 1. Opportunities for empirical research on the design and use of interactive maps and visualizations.

Basic research on interactive maps and visualizations

- 1. Expand qualitative and mixed-method research to confirm and enrich quantitative research in cartography
- 2. Improve consistency and detail in the reporting of method designs
- 3. Promote purposeful sampling of study participants and limit convenience sampling
- 4. Adopt new approaches to treat interactive, online, and mobile maps and visualizations as unique study materials
- 5. Define and assess high-level, insight-based tasks to complement benchmark tasks in user studies
- 6. Complement laboratory and online studies with field studies

Adapting methods for UCD studies

- 7. Establish gold standards for administering and assessing UCD studies on interactive maps and visualizations
- 8. Streamline and contextualize the UCD process for interactive cartography and visualization
- 9. Promote comprehensive UCD case studies
- 10. Leverage UCD studies for participatory action research
- 11. Conduct user-centered studies on the political economy of interactive cartography and visualization Additional empirical needs in interactive cartography and visualization
- 12. Articulate dimensions of interface complexity in user studies
- 13. Develop strategies to compare static and interactive maps
- 14. Investigate the value of interactivity in new map use cases
- 15. Evaluate non-cartographic and neocartographic interfaces supporting map design and pro
- 16. Evaluate mobile interactions
- 17. Develop and integrate design guidelines for interaction and representation in cartograph



Source: Roth et al. (2017) *User studies in cartography: Opportunities for empirical research on interactive maps & visualizations*

International Journal of CARTOGRAPHY

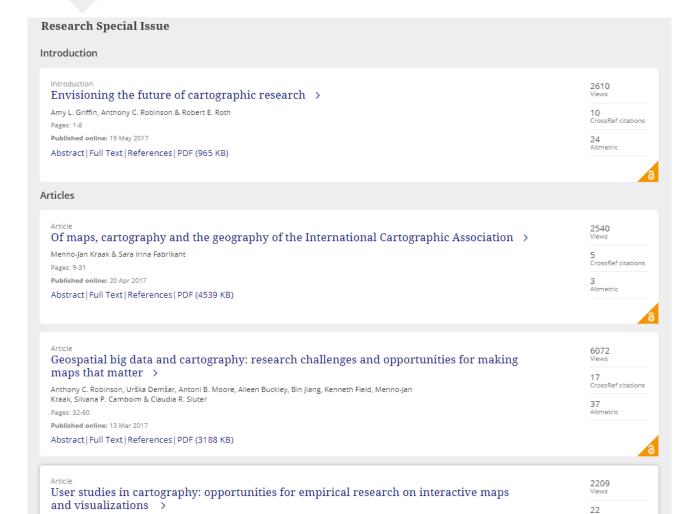
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Call for Papers: Special Focus Issue of the International Journal of Cartography on the State of the Art & Science in Cartography

Posted on July 6, 2021 by Arzu Sultekin

Call for Papers: Special Focus Issue of the International Journal of Cartography on the State of the Art & Science in Cartography

Guest Editors: Arzu 3ultekin, Anthony C. Robinson, Luciene Delazari, Pyry Kettunen



The ICA Commissions on Visual Analytics, Cognitive Issues in Geographic Visualization, and User Experience (UX) invite paper submissions for a special focus issue of the International Journal of Cartography

(https://www.tandfonline.com/toc/tica20/current). The theme for this special issue







Tweets by @icaviz



ICA Commission on Visual Analytics Retweeted



Robert E. Roth

@ Robert ERoth

The @UWMadisonGeog dept is excited to announce *TWO* (!!) tenure-track positions in GIScience: (1) Assistant Professor in Geospatial Tech & Director of @UWMadisonGIS jobs.hr.wisc.edu/en-us/job/5111... (2) Assistant Professor in Cartographic Design & Geovisualization jobs.hr.wisc.edu/en-us/job/5111...





Nov 5, 2021



2019 ICA Workshop on Mobile Map UX 2019年国际制图协会 (ICA) 移动地图用户体验设计论坛





Mobile Map UX Research Agenda: ~2022



ICA Commission on Cognition

Amy Griffin | Australia Hua Liao | China Tumasch Reichenbacher | Switzerland Shengkai Wang | China Wangshu Wang | Austria Cao Yinghui | China

ICA Commission on LBS

Haosheng Huang | Switzerland Yi Cheng | China Weihua Dong | China Georg Gartner | Austria Jukka Krisp | Germany Liqui Meng | Germany

ICA Commission on UX

Robert Roth | USA
Arzu Çöltekin | Switzerland
Luciene Delazari | Brazil
Bradley Denney | Australia
André Mendonça | Brazil
Jie Shen | China
Zdeněk Stachoň | Czechia
Mingguang Wu | China





About GeoFort

GeoFort is an educational attraction on an exciting fort in the New Dutch Waterline in the field of cartography and navigation. On GeoFort the visitor will meet old and new geotechniques in the GeoExperience, the 'intelligent' maze and Bat Trail Garden. Also on GeoFort is a restaurant, the 3D Cafe and several meeting rooms.

- >> What is Geo?
- >> The fortress
- >> Sponsors and partners
- >> Organisation

2022 2024!?

ICA Commission on the User Experience (UX)

2021 Business Meeting 15 December | Florence, Italy

How can we better support your user needs!?

