

International Cartographic Association
Commission on Cartographic Heritage into the Digital
17th ICA Conference Digital Approaches to Cartographic Heritage
Thessaloniki, 24-26 May 2023

Conference Proceedings

Editors: Angeliki Tsorlini, Chrysoula Boutoura
Thessaloniki: AUTH CartoGeoLab – ISSN 2459-3893



Copyright 2023: the authors of the single papers,
the editor and publisher of the Proceedings volume

The Proceedings distributed to all registered participants of the
17th ICA Commission Conference 2023

To order digital copies of the Conference Proceedings
Contact the AUTH CartoGeoLab:
atsorlin@auth.gr, boutoura@auth.gr

The 17th Conference of the series Digital Approaches to Cartographic Heritage is organised by the ICA Commission on Cartographic Heritage into the Digital in Thessaloniki, Greece, 24-26 May 2023, in partnership with the AUTH - Aristotle University of Thessaloniki, supported by the MAGIC - Map & Geoinformation Curators Group.

17th ICA Conference “Digital Approaches to Cartographic Heritage: <http://cartography.web.auth.gr/ICA-Heritage/Thessaloniki2023>

ICA Commission on Cartographic Heritage into the Digital: <http://cartography.web.auth.gr/ICA-Heritage>

AUTH Laboratory of Cartography and Geographical Analysis: <http://cartography.web.auth.gr/cartogeolab>

The Conference Board

Scientific Board ICA

Andrés Arístegui *Madrid*
Marcy Bidney *Milwaukee*
Gabriele Bitelli *Bologna*
Chris Fleet *Edinburgh*
Georg Gartner *Vienna*
Mátyás Gede *Budapest*
Günther Görz *Erlangen*
Francesco Guerra *Venice*
Evangelos Livieratos *Thessaloniki*
Liqiu Meng *Munich*
Carme Montaner *Barcelona*
Andrea Nanetti *Singapore*
Eva Novotná *Prague*
Ferjan Ormeling *Utrecht*
Pilar Sánchez-Ortiz *Madrid*
Angeliki Tsorlini *Thessaloniki*
László Zentai *Budapest*

Commission Support &

Local Organisers

Mátyás Gede *Budapest*
Chrysoula Boutoura
Evangelos Livieratos
Angeliki Tsorlini *Thessaloniki*

Conference Support

ICA – International Cartographic Association

Commission on Cartographic Heritage into the Digital

MAGIC – Maps & Geoinformation Curators Group

e-Perimtron – The International Web Journal on Sciences and Technologies Affined to History of Cartography and Maps

AUTH – Aristotle University of Thessaloniki / School of Rural & Surveying Engineering / CartoGeoLab

AUTH – Aristotle University of Thessaloniki / Library and information Centre

HCS – Hellenic Cartographic Society

HFRI – Hellenic Foundation for Research and Innovation

ELTE Institute of Cartography and Geoinformatics

Commission Supporting Institutions

ICGC – Cartographic and Geologic Institute of Catalonia, Map Library, Barcelona

IUAV – University IUAV of Venice, Cartography & GIS Lab and Photogrammetry Lab, Venice

NLS – National Library of Scotland, Map Section, Edinburgh

ELTE – Eötvös Loránd University, Department of Cartography & Geoinformation, Budapest

IONIAN – Ionian University, History Department, Corfu

AUTH – Aristotle University of Thessaloniki, Cartography & Geographical Analysis Lab

Preface

Historical maps are important sources of information about past ages. Exploring ways of making this information available for further research is among the main tasks of the Commission on Cartographic Heritage into the Digital of the International Cartographic Association (ICA) and the Map & Geoinformation Curators Group (MAGIC).

This volume contains the papers presented on the 17th Conference on Digital Approaches to Cartographic Heritage (ICA DACH). The diversity of these papers shows how rich is the world of archive maps and how their information content can be utilized on many fields of science and arts.

This year's Conference presents 24 papers with participation from 11 countries representing 27 institutions (universities, national and university libraries, archives and museums, research institutes, the public and private geospatial sectors, organisations) and it is organised in six working sessions dealing with issues related to the ICA Commission and the MAGIC Group terms of reference, among others: promoting research and development on the field of cartographic heritage; intra- and interdisciplinary co-operation; popularisation of cartographic heritage; policy making and strategies for Geoinformation / Map Collection development; metadata models and data-exchange standards for library, archive and museum items; preservation, access and innovation in visualisation and presentation (virtual exhibitions) of cartographic heritage (analogue and digital).

We hope that readers of this volume will find answers, ideas and inspiration for their work in the realm of cartographic heritage and map librarianship.

Mátyás Gede

chair, ICA Commission on Cartographic Heritage into the Digital

Marcy Bidney

chair, Map & Geoinformation Curators Group-MAGIC

vice-Chair, ICA Commission on Cartographic Heritage into the Digital

Angeliki Tsorlini

editor of the proceedings

vice-Chair, ICA Commission on Cartographic Heritage into the Digital

Contents

SESSION I

- Chalkidou S., P. Tokmakidis, P. Patias, O. Georgoula, A. Arvanitis** Identifying lost cultural heritage assets from historic town planning maps. The case of Thessaloniki, Greece 7
- Pagkalidis A.-P., M. Psarogiorgos, A. Tsorlini** Studying the development of the city of Florina from its liberation in 1912 until today based on historical town plans, maps and orthophoto maps 22
- Delli G., G. Malaperdas** Samos, a terra incognita? The byzantine landscape through cartographic and textual sources 40
- Zentai L.** Re-thinking early digital thematic atlases: Atlas of Central Europe 51

SESSION II

- Vardakosta I.** Effective management of geographical information in Map/GIS Libraries 63
- Shawa T.** How to make large collections of map sets accessible online 74
- Dodsworth E., M. Wieland** Delving into the Archives: Studying geographic and cultural landscape changes using cartographic and textual data 84
- Ammann O.** Acquisition and provision of electronic thematic maps at ETH Library: Experiences and results from the pioneer project 97

SESSION III

- Gkadolou E., E. Charitoudi, N. Meyer** Digital Humanities tools for linking historical maps collections: A case study from the British School at Athens 99
- Ungvári Z., M. Gede, H. Krizsán, K. Rapcsán, Z. Kuris, A. Beszki** Interactive name index of old virtual globes 111
- Irás K., I. Faragó** Updates on the Atlas of Medieval Settlements of the Hungarian Kingdom 121
- Hormes S.** Cartographic time machine 133

SESSION IV

- Tsorlini A., C. Boutoura, E. Livieratos** Studying the geometric properties and the thematic content of the two maps of Greece by Pierre Lapie (1822, 1826) 137
- Van Egmond M.** Maps with a Message: Charting, interpreting, and disseminating of knowledge about Missionary Cartography (ca. 1850-1950) 138
- Kiss E., H Herold** Monitoring land change on national scale 152
- Koukoletsos T., G. Nikas, D. Loisios, P. Grigoriadis** Mapping the Greek Army at the 1st Balkan War: Challenges and mismatches 153

SESSION V

- Galambos Cs., G. Nikas, Z. Bartos-Elekes, G. Timár** The Habsburg geodetic surveys of the Balkans (1873/75) and the early topographic maps of Northern Greece 166

Kiss E., M. Klöffler, G. Timár Schmitt's Map: The combination of French and Austrian surveying expertise in Southern Germany	175
Timár G., P. Musyimi, S. Appel Projection analysis and georeference of the 1:2M Africa map by Régnaud de Lannoy de Bissy (1891-1902)	187
Gede M. Georeferencing Tabula Peutingeriana	194
SESSION VI	
Patias P., T. Roustanis, K. Klimantakis, D. Kaimaris, S. Chalkidou, I. Christoforidis A workflow for validation and evaluation of a Dynamic Content Management System for cultural events	196
Magyari M. Systematizing written records for the creation of a spatiotemporal database concerning the all-time settlement network of Transylvania	208
Tassopoulou M., G. Pozoukidou Were ancient cities resilient? A study using historical maps to identify and evaluate sustainable urban planning throughout Greece's ancient and Early modern history	220
Barontini S., B. Bettoni, M. F. Hanif, H. Mohammad, M. Peli, R. Ranzi Mapping ancestral irrigation techniques in the Mediterranean basin and Central Asia for a climate based analysis	221
Abstracts of the papers	235
List of Authors	245