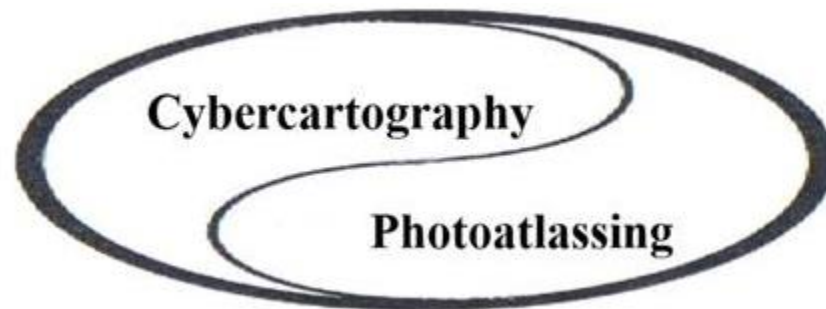


Derivative Photoatlas

D. R. Fraser Taylor, Romola V. Thumbadoo, Alexander Wolodtschenko and Ilya Zaslavsky

Cybercartography and Photoatlassing Projects

Creation, Collection, Analysis



**Dresden
2022**

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1. Preface



Cybercartography

D. R. Fraser Taylor,
professor, dr. (Canada)



Circle of All Nations

Romola V. Thumbadoo
PhD Geography (Canada)



Photoatlassing (Meta-carto/atlas semiotics)

Alexander Wolodtschenko,
dr. dr.h.c. (Germany).



SuAVE (analysis platform)

Ilya Zaslavsky, PhD
(USA)

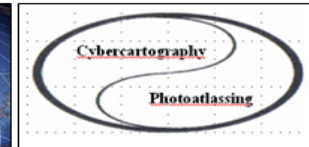
1. Preface

Cartography in the Social Media Era: A New Balance and Synthesis

D. R. Fraser Taylor, Romola V. Thumbadoo (Ottawa, Canada), Ilya Zaslavsky (San Diego, USA)
and Alexander S. Wolodtschenko (Dresden, Germany)



**Conceptions
Projects
Proposals**



ICC 2021, Florence, Italy

Screenshot of start page of our presentation at the ICA Conference 2021 in Florence, Italy. Our derivative photoatlas is based on this presentation and includes some selected slides.

1. Preface

Cybercartography

- Concept
- Location-based technologies
- Geomatics and Cartographic Research Centre (GCRC)
- Cybercartographic atlases
- ...

Meta-carto/atlas semiotics

- Concept
 - New discipline: atlasgraphy
 - New trend: atlassing
- ### Photoatlassing
- Creation of photoatlases
 - Semiotic analysis of photoatlases
 - Collection & depository of photoatlases

Synthesis



Projects

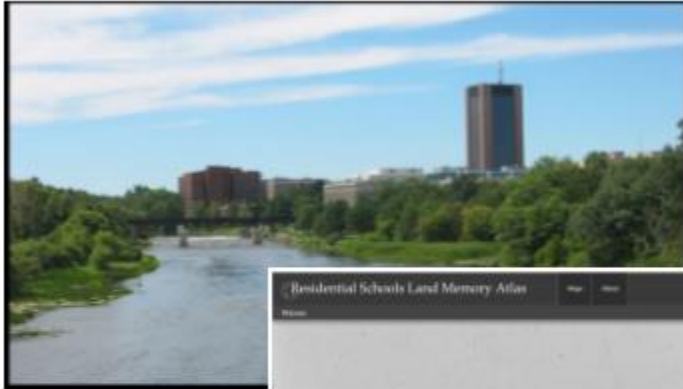
Photoatlas Creation

Photoatlas Collections

Photoatlas Analysis

The Synthesis of Cybercartography and Photoatlassing (after Wolodtschenko 2021) characterizes a new phase of multidisciplinary cooperation in practice and methodology

2. Selected Cybercartographic Projects Geomatics and Cartographic Research Centre (GCRC)



Carleton
University,
Ottawa,
Canada



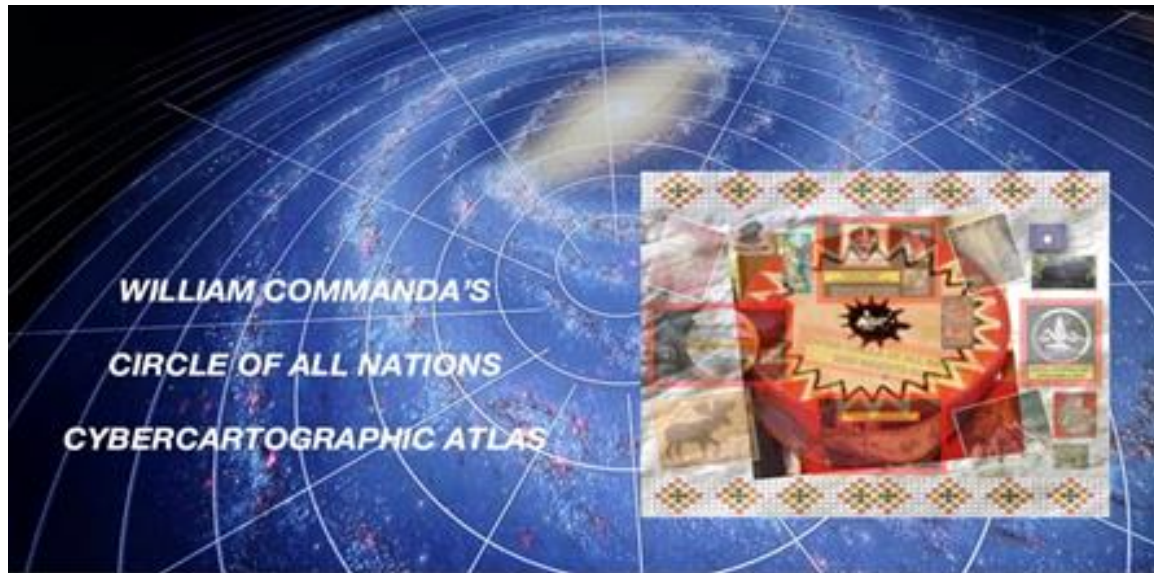
From Cartography to Cybercartography
Locational Digital Storytelling



Prof. D. R. Fraser Taylor is founder and director of Geomatics and Cartographic Research Centre (GCRC), Department of Geography and Environmental Studies, Carleton University, Canada. ICA President (1987-1995). Author of Cybercartography concept (1997) and editor of books on "Cybercartography" (2005, 2024, 2019). About 20 cybercartographic atlases have been created at the GCRC.

2. Selected Cybercartographic Projects Circle of All Nations and Indigenous Perspectives

Circle of All Nations Cybercartographic Atlas
Grounded in the *Cybernetic* Motional Knowledge
of Indigenous Elder William Commanda



Ancient Knowledge and
Contemporary Application,
including in Social Media

CYBERCARTOGRAPHY
Ancient Knowledge Base and Contemporary Application

More than a decade ago, D. R. Fraser Taylor, Director of the Geomatics Cartographic Research Centre (GCRC) at the Carleton University, the academic pioneer in the field of cybercartography, wrote that this technology would see cartography applied to a much wider range of topics than had traditionally been the case: "It will also utilize an increasing range of emerging media, forms and telecommunication networks such as the Internet and the World Wide Web. It will be a multidimensional cartography using multimedia formats and is more likely to be an integral part of an information package than a stand-alone product. Cybercartography will also be highly interactive and engage the user in new ways. In organizational terms, it will see new partnerships being created between national mapping organizations, the private sector and educational institutions and the products of cybercartography are likely to be compiled by teams of individuals from very different disciplines and professional perspectives working together" (Taylor and Pyne 2009).

3. Selected Photo-atlasgraphic Projects Cybercartography and Phototlassing

Photoatlas
by
D. R. Fraser Taylor, Romola V. Thumbadoo and Alexander Wolodtschenko



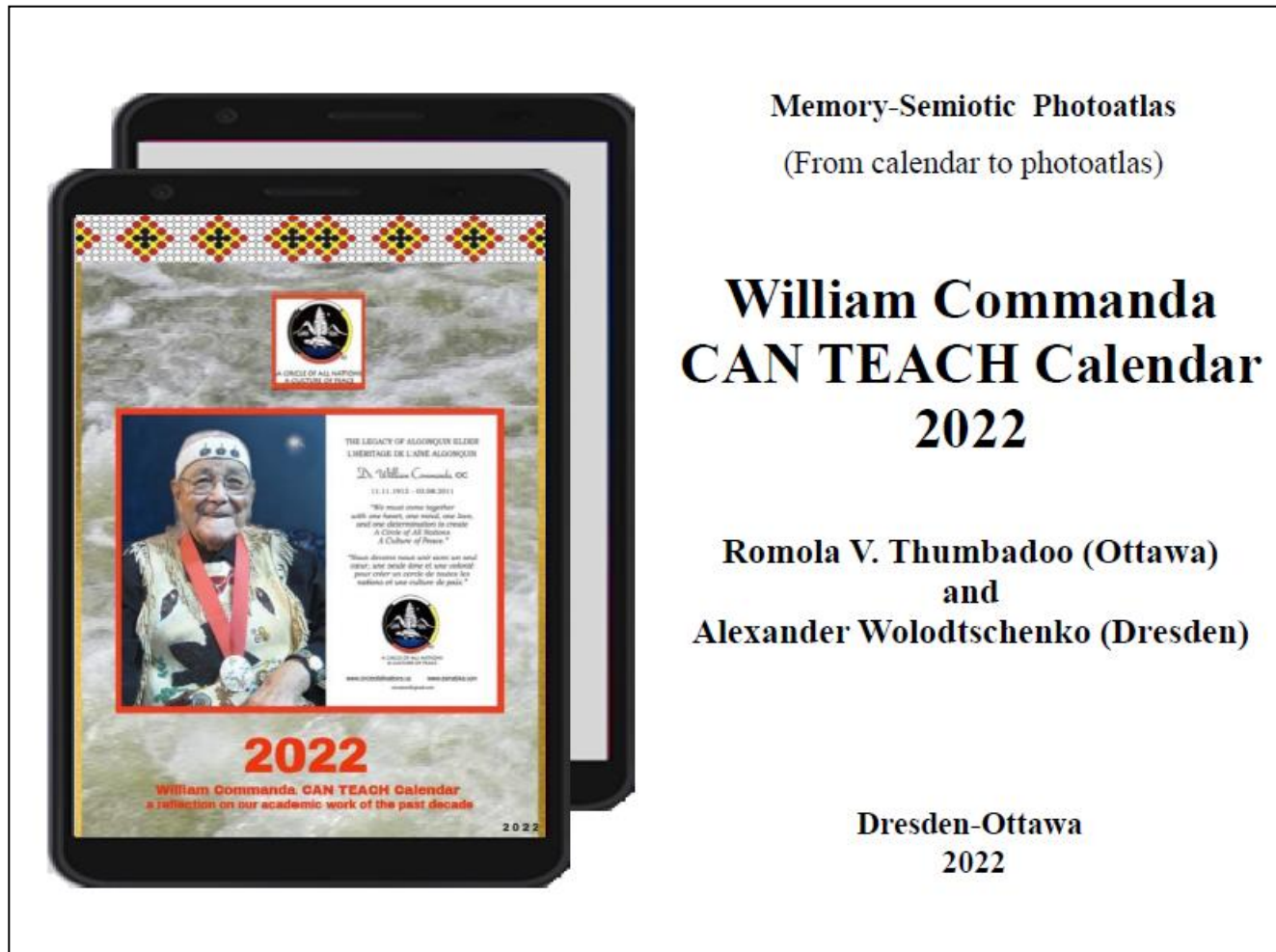
10 Selected Indigenous Cybercartographic Atlases



Dresden-Ottava
2021

Screenshot of cover page of first joint photoatlas
“10 Selected Indigenous Cybercartographic Atlases”

3. Selected Photo-atlasgraphic Projects Circle of All Nations and Phototlassing



Memory-Semiotic Photoatlas
(From calendar to photoatlas)

William Commanda CAN TEACH Calendar 2022

Romola V. Thumbadoo (Ottawa)
and
Alexander Wolodtschenko (Dresden)

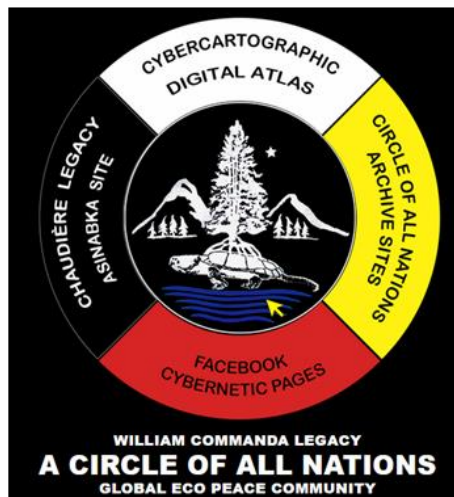
Dresden-Ottawa
2022

Screenshot of cover page of memory photoatlas
“William Commanda CAN TEACH Calendar2022”

3. Selected Photo-atlasgraphic Projects Circle of All Nations and Phototlassing

Romola V. Thumbadoo and Alexander Wolodtschenko
Methodologic-semiotic Photoatlas

From Circle of All Nations Landing Page to Derivative Photoatlas



Dresden
2022

Screenshot of cover page of photoatlas
“From Circle of All Nations Landing Page to Derivative Photoatlas ”

3. Selected Photo-atlasgraphic Projects

Semiotic Photoatlas Science and Phototlassing

Alexander Wolodtschenko
Bildatlassemiotik

Element	Percentage
Bild	61,7%
Text	36,5%
Map	1,8%

Bildatlasgraphie

Bildatlantenthek

**Abriss
zur semiotischen
Bildatlaskunde**

Bildatlasgeschichte

Dresden
2021

Screenshot of cover page of methodical photoatlas
“Contour of Semiotic Photoatlas Science”

3. Selected Photo-atlasgraphic Projects

Semiotic Photoatlas Science and Phototlassing



Screenshot of cover page of methodical photoatlas
“From Humanitarian to Health Geography”

4. Analytical Photo-atlassemiotic Projects

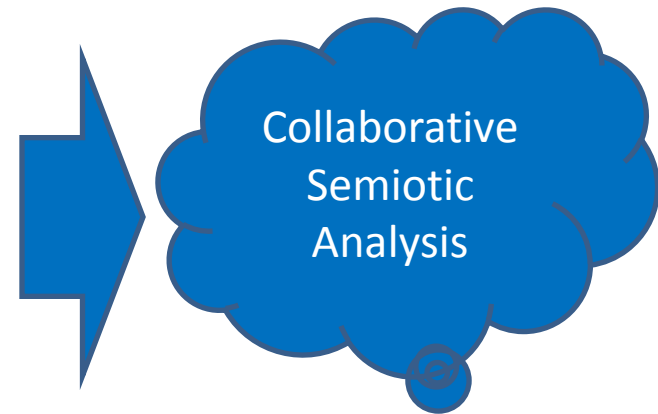
SuAVE (Survey Analysis via Visual Exploration, <http://suave.sdsc.edu/>) is a new data science platform for visual, statistical, and cartographic analysis. It has been used for semiotic analysis, annotation, and sharing of thematic photo-atlases and their collections.

Organize atlas documents as different data views and maps to explore patterns

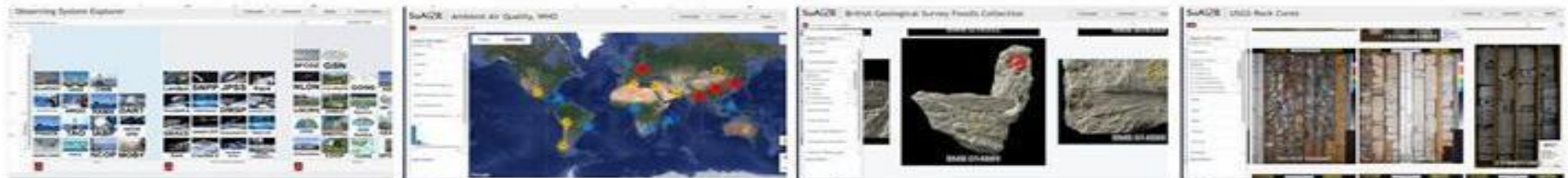
Compare atlases and visualize them in different contexts

Manually annotate atlas documents and patterns and share annotations

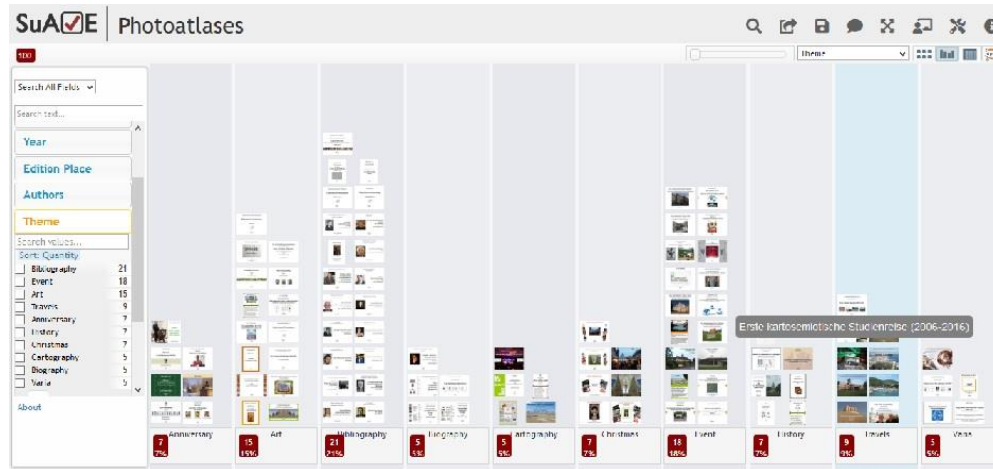
Automatically generate labels from images and keywords from atlas descriptions



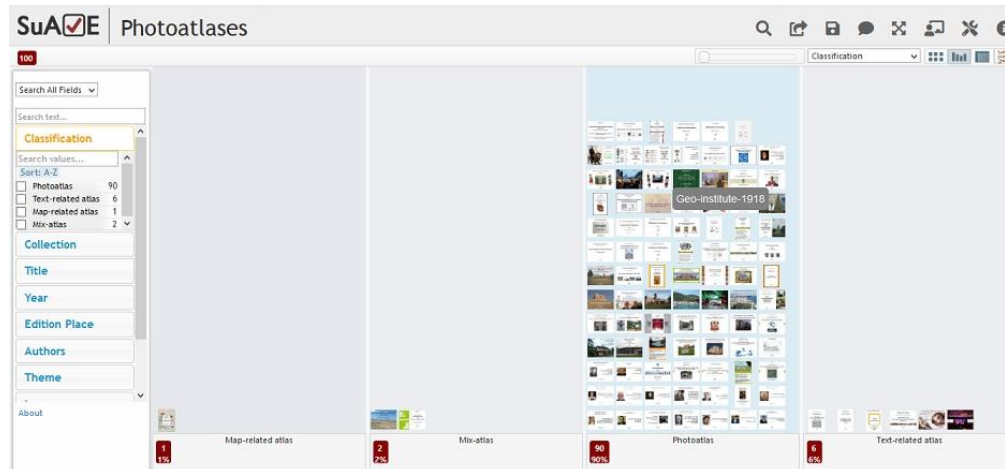
SuAVE has been used in the geosciences, sociology, public health, and other fields



4. Analytical Photo-atlassemiotic Projects



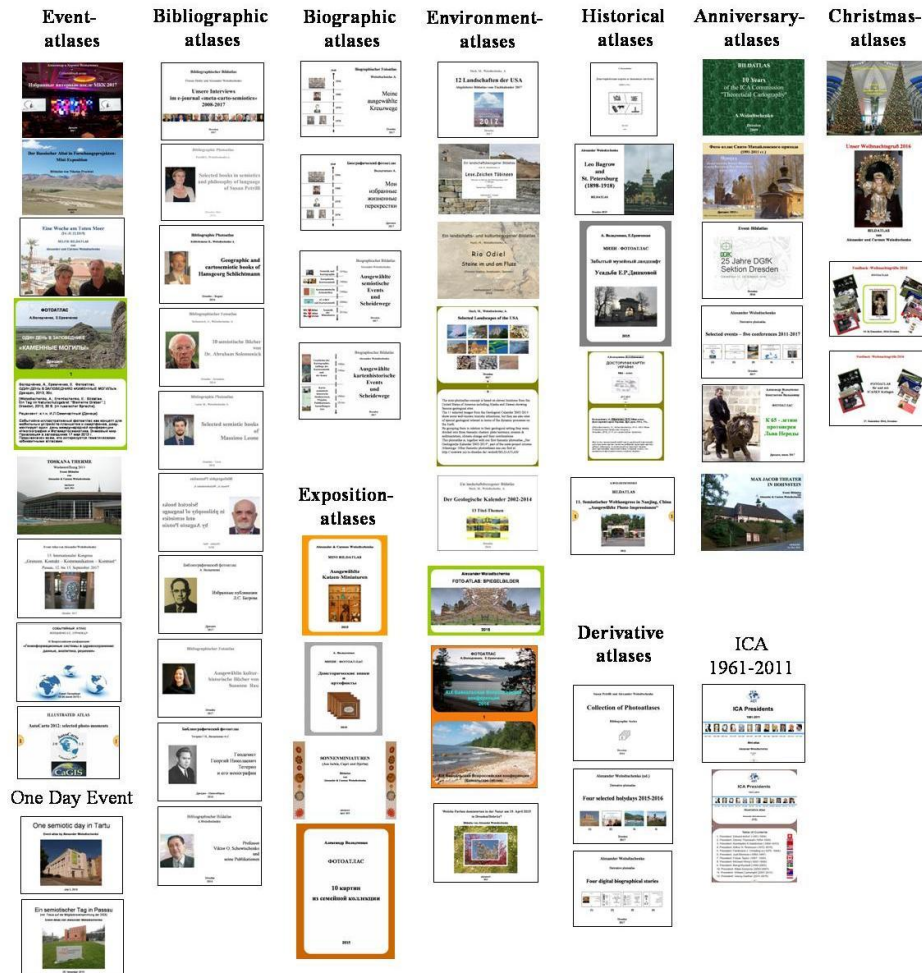
Thematic classification
of photoatlases



Semiotic classification
of photoatlases

100 photo-atlases (the ubiquitous mini-atlases with 30-35 slides, 10-20 MB for smart phones and tablets) have been loaded in SuAVE, available online

5. Photoatlassing Collections and Atlantenthek Semiotic-epistemologic Products



Photoatlassing Collection from site by A. Wolodtschenko includes around 170 atlases of which 84% are storytelling atlases (<https://atlas-semiotics.jimdofree.com/bild-atlantothek/>)

5. Photoatlassing Collections and Atlantenthek Semiotic-epistemologic Products

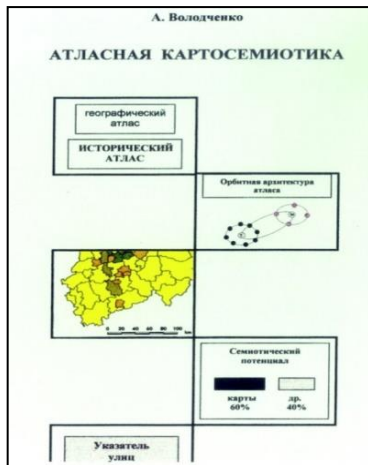


The photoatlas collection is supported by the TUD Institute of Cartography (approx. 100 image atlases stored on the computer center server) and Spatial Information Systems Laboratories of the University of California, San Diego (approx. 100 photoatlases stored).

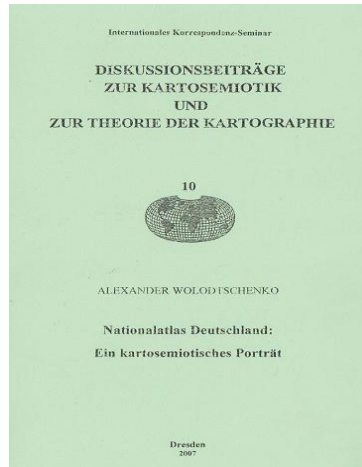
A collection of about 160 thematic photoatlases is available on the "Carto- and Atlas Semiotics" website.
<https://atlas-semiotics.jimdofree.com/bild-atlantothek/>

A collection of about 20 photoatlases is available on the Monika Huch's website:
<http://www.geokultur-erleben.de/buecher.html>

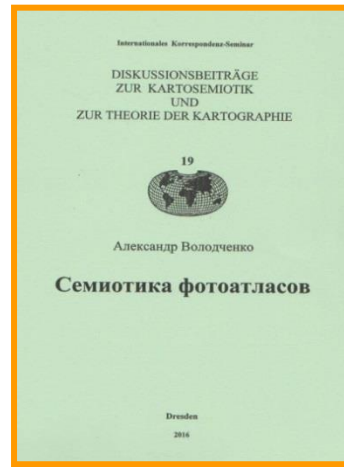
5. Photoatlassing Collections and Atlantenthek Semiotic-epistemologic Products



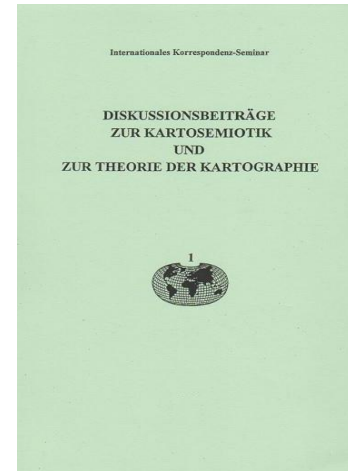
2006



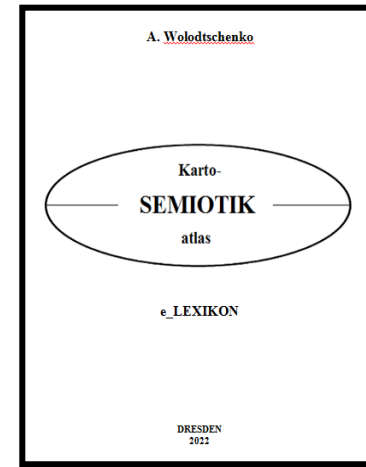
2007



2016



2020



2021

The selected monographs (2006-2021) document the emergence of carto-atlassemiotic theory and the formation of new semiotic-epistemological disciplines. All of these monographs are available from: <https://atlas-semiotics.jimdofree.com/projekte/>

1. Wolodtschenko, A.: Atlasnaia kartosemiotika. Dresden 2006.
2. Wolodtschenko, A.: Nationalatlas Deutschland: ein kartosemiotisches Porträt. Dresden 2007
3. Wolodtschenko, A.: Semiotik der Bildatlanten. Dresden 2016
4. Wolodtschenko, A.: Semiotische Evolution in der Kartographie und Atlassing. Dresden 2020
5. Wolodtschenko, A.: Karto-Atlassemiotik. Lexikon. Dresden 2021

6. Conclusion

New Synthese Concept: New Atlasgraphic Products (Derivative Photoatlases)

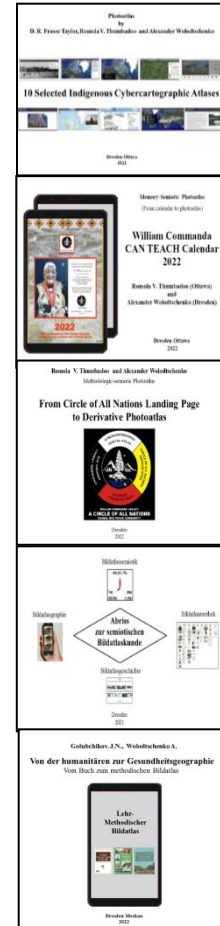
From collection of cybercartographic atlases to derivative photoatlas

From calendar to derivative photoatlas

From web site to derivative photoatlas

From academic discipline to derivative photoatlas

From book to derivative photoatlas



Five selected derivative photoatlases reflect new epistemologic atlasgraphic products.

6 . Conclusion

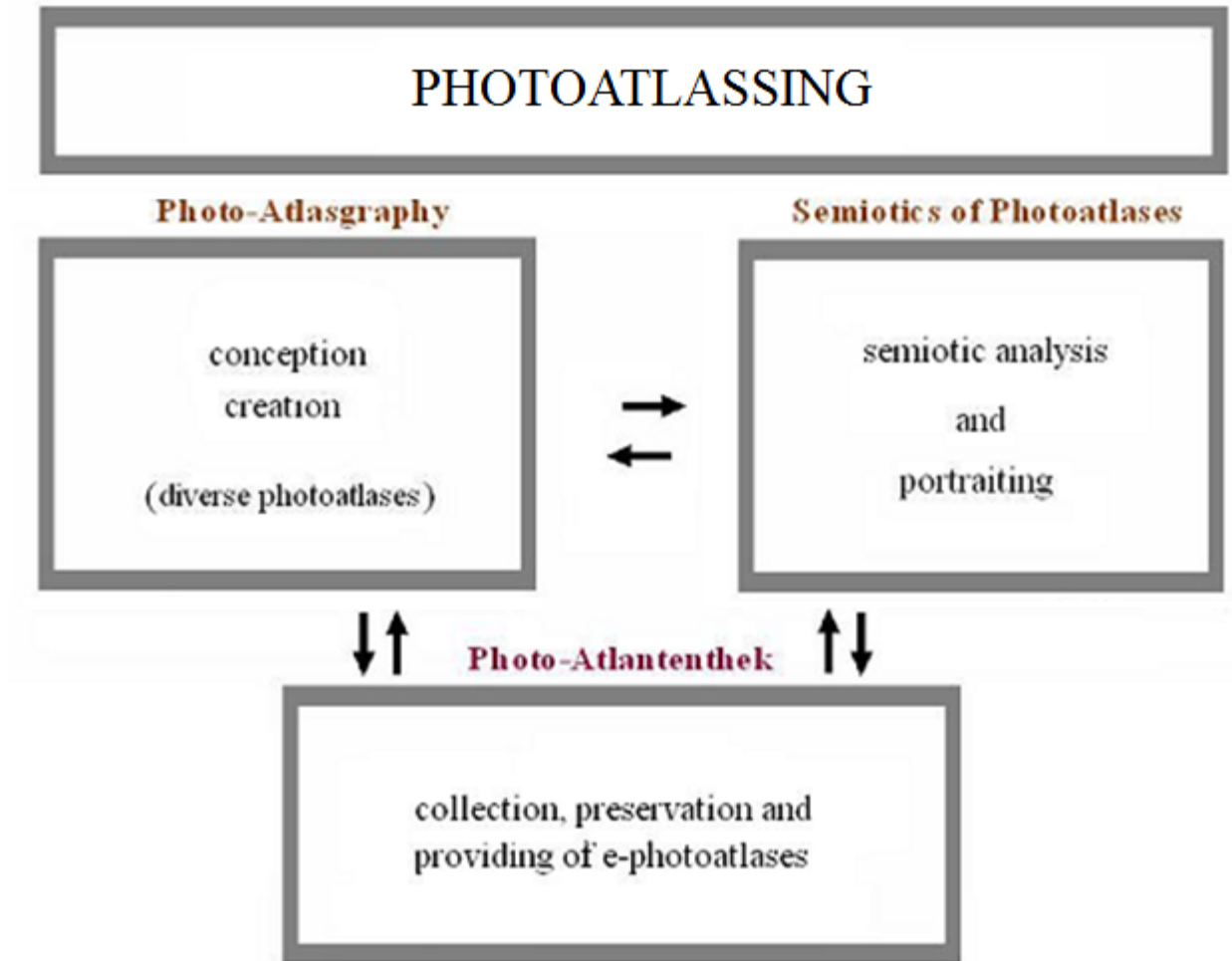
Semiotic Evolution Process: From Cartography (Kartenkunde) to Photoatlas Science



The new photoatlas science reflects a cartosemiotic evolution (Wolodtschenko 2021) at the interface of cartography and semiotics through various development or conversion processes from cartography to atlasgraphy, from cartosemiotics to photoatlas semiotics, from the atlas analysis to atlas data analysis, from graphic variables to model-semiotic metavariables, parity-semiotic atlas classification, etc.

6. Conclusion

From Geo-Spatial Science to Semiotic-Epistemologic Science



The structural model of photoatlassing (after Wolodtschenko 2021) includes photo atlasgraphie (photoatlas-gestaltung), photo atlassemiotik and photoatlantenthek (collection of diverse atlases)

6. Conclusion

From Geo-Spatial Science to Semiotic-Epistemologic Science

The derivative photoatlas „Cybercartography and Photoatlassing Projects“ contains selected cybercartographic, photo-atlasgraphic and analytical photo-atlassemiotic projects.

The photoatlasgraphy and photo-atlassemiotics as new disciplines are currently being developed on the basis of ubiquitous thematic photoatlases (for smartphones and tablets) that complement traditional paper atlases and GIS atlases (atlassystems). They contain the semiotic-theoretical foundations of the creation, design, analysis, use and collection of thematic photoatlases.

The new concept of synthesis: from cybercartography to cyberatlasgraphy marked the process of semiotic evolution: from cartography (Kartenkunde) to the science of photo atlases, from geospatial science to semiotic-epistemological science, as well as new atlasgraphic products (derived photoatlases).

"Cyberatlasgraphy" can be a new integrative synthesis concept (Wolodtschenko 2021) for geo-spatial and semiotic-epistemologic sciences. The era of atlas cartography is moving into the era of interdisciplinary atlasgraphy.

7. References and imprint

Slides 9-12, 17,19-21: Photo archive of A. Wolodtschenko

Slides 3-8,13-16, 18: from Taylor et al. (2021)

Selected publications:

Taylor, D. R. F., (Ed.) (2005). *Cybercartography: Theory and Practice*, Volume 4. Amsterdam: Elsevier 2005.

Taylor, D. R. F., (Ed.) Anonby, E., Murasugi, K. (Associate Editors). (2019) *Further Developments in the Theory and Practice of Cybercartography: International Dimensions and Language Mapping* Volume 9. Elsevier, Amsterdam

Taylor, D. R. F., Thumbadoo, R. V., Wolodtschenko, A., and Zaslavsky, I.(2021): *Cartography in the Social Media Era: A New Balance and Synthesis*. In: *Abstr. Int. Cartogr. Assoc.*, 3, 287, <https://doi.org/10.5194/ica-abs-3-287-2021>, 2021

Wolodtschenko A.(2021): *Quo vadis Europäische (theoretische) Kartographie und Kartographie/ Atlassemiotik?*. Verlag: Selbstverlag der TU Dresden. Dresden 2021

Selected web-addresses:

https://gcr.ccarleton.ca/index.html?module=module.gcratlas_atlases

<https://atlas-semiotics.jimdo.com/>

<https://www.facebook.com/circleofallnations>; www.circleofallnations.ca

D. R. Fraser Taylor, Romola V. Thumbadoo, Alexander Wolodtschenko and Ilya Zaslavsky
Cybercartography and Photoatlassing Projects. Creation, Collection, Analysis

Derivative Photoatlas.

Dresden 2022