

## Table of Content

### VOLUME 2

<b>Map, GIS and Education</b>	<b>1</b>
Updating Research on Chernoff Faces for School Cartography <i>José Jesús Reyes Nuñez, Anita Rohonczi, Cristina E. Juliarena de Moretti, Ana María Garra, Carmen Alicia Rey, María V. Alves de Castro, Anabella S. Dibiase, Teresa A. Saint Pierre, Mariana A. Campos</i>	3
The Production of Maps for Students in the Context of School Culture <i>Rosangela Doin de Almeida</i>	21
Geoinformation: a social Issue <i>Angelica Carvalho Di Maio, Cilene Gomes, Maria de Lourdes Neves de Oliveira Kurkdjian</i>	35
Passing GIS Knowhow from University Students to secondary School Students: pedagogical Approach in developing youngster's Capabilities and Understanding in GIS <i>Amal Iadly, Rola Jadayel, Oussama Jadayel</i>	49
The Methodological Advantages of using Web Server in Teaching GIS <i>Andrea Pódör</i>	73
 <b>Historical data: exploration, digitalization, access an analysis</b>	 <b>83</b>
Geovisualization and Archaeology: supporting Excavation Site Research <i>Spyridon Tsipidis, Alexandra Koussoulakou, Kostas Kotsakis</i>	85
Virtual Recreation of the Monroy Roman Villa (Extremadura - Spain) <i>Alan D.J. Atkinson, Jose Juan de Sanjose Blasco, Jorge Cilleros Recuero, Alberto García Martín and Fernando Berenguer Sempere</i>	109
SEREDONA: a web platform to integrate historical geographic data into current georeferenced frameworks. <i>Eric Grossos</i>	117

Digital Processing and 3D Modelling of an 18 <sup>th</sup> Century Scenographic Map of Bologna <i>Gabriele Bitelli, Giorgia Gatta</i>	129
Web Services and Historical Cadastral Maps: the first Step in the Implementation of the Web C.A.R.T.E. System <i>Brovelli M. A., Minghini M., Valentini L</i>	147
A Method for the Visual Representation of Historic Multivariate Point Data <i>Alwyn Davidson, Colin Arrowsmith, and Deb Verhoeven</i>	163
The Atlas and the Globe of Russian Geographical Explorations and Discoveries of the Earth: Concepts and Contents <i>N.N. Komedchikov, V.M. Kotlyakov, A.G. Khropov, A.A. Medvedev, L.N. Zinchuk</i>	179
Crossing Borders: Cartographic and Military Operations and the International Borders in the Libyan Desert before WW II <i>Zsolt Győző Török</i>	187
<b>Map Projection</b>	<b>207</b>
Optimising the Distortions of sinusoidal- elliptical composite Projections <i>Gede Mátyás</i>	209
Using Empirical Map Projections for Modeling Early Nautical Charts <i>Joaquim Alves Gaspar</i>	227
<b>Planet and Space Cartography</b>	<b>249</b>
Requirements for Planetary Symbology in Geographic Information Systems <i>A. Nass, S. van Gasselt, R. Jaumann, H. Asche</i>	251
Venus Mapping at small Scale: Source Data Processing and cartographic Interpretation <i>E. Lazarev, J. Rodionova</i>	267
Planetary Nomenclature: a Representation of human Culture and alien Landscapes <i>Henrik I. Hargitai, Kira B. Shingareva</i>	275
A New Version of the Multilingual Glossary of Planetary Cartography <i>Kira Shingareva, Bianna Krasnopevtseva</i>	289

Cartographic Support of a New Landing Site for “Phobos-Grunt” Mission <i>Kira Shingareva, Bianna Krasnopevtseva, Anatoliy Konopikhin, Konstantin Zeljkov, Sergey Dubov</i>	297
<b>Making GeoInformation from Image Analysis</b>	<b>303</b>
Evaluation of the spatial Dynamics of Great Oran (Algeria) using spatial Imagery and GIS <i>Fouzia Bendraoua, Ali Bedidi, Bernard Cervelle</i>	305
Topographical Mapping at 1:50,000 Scale from Satellite Imagery using CARTOSAT-1 <i>Takka El-hadi</i>	321
3D Topographic Mapping using TerraSAR-X Elevation <i>Frank Teufel, Ernest Fahrland, Henning Schrader</i>	333
<b>Terrain Mapping and Analysis</b>	<b>355</b>
An Influence of Spatial Range of Input Data set on Terrain Relief form Classification Homogeneity for Glacial Area <i>Małgorzata Wieczorek</i>	357
Accuracy Assessment of ASTER GDEM in North Shaanxi <i>Xin Yang, Guoan Tang, Wei Zhang, Shijie Zhu</i>	371
DEM based Terrain Factor of Soil Erosion at regional Scale and Soil Erosion Mapping <i>Fayuan Li, Guoan Tang</i>	383
<b>Analysis and Simulation for Application Fields : Urban Growth, Traffic, Epidemiology and Language Locations</b>	<b>397</b>
Urban Growth Modeling with Road Network Expansion and Land Use Development <i>Yikang Rui, Yifang Ban</i>	399
Conception of a GIS-Platform to simulate urban densification based on the analysis of topographic data.	413

<i>Anne Ruas; Julien Perret; Florence Curie; Annabelle Mas; Anne Puissant; Gregorz Skupinski, Dominique Badariotti, Christiane Weber, Pierre Gancarski, Nicolas Lachiche, Julien Lesbegueries, Agnès Braud</i>	
Realistic Road Modelling for Driving Simulators using GIS Data <i>Guillaume Despine, Caroline Baillard</i>	431
Modeling and Mapping Traffic-Congested Corridors for Statewide Decision Support <i>Jeong C. Seong, Habtewold Kassa, David Choi</i>	449
How to Map out the Routes of Walkers in a Forestry Environment Considered to be of Risk? The Case of Human Exposure to Lyme Borreliosis in the Forest of Séhart (Île-de-France, France) <i>Vincent Godard, Christelle Meha, Olivier Thomas</i>	457
Estimation of the Locations of the Language-Versions of Wikipedia - a Case Study on Geographic Data Mining <i>Tobias Dahinden</i>	471