

CONTENT

INTRODUCTION	11
GEOGRAPHY AS A SCIENCE, DIDACTICS OF GEOGRAPHY.....	12
Traditional, disappearing and emerging human geography topics at grammar schools and in undergraduate geography teacher training programmes	12
<i>Rastislav Čieff, Branislav Nižnanský</i>	
Pupil's difficulties in performing problem-based learning tasks in geography: Results of the qualitative analysis	23
<i>Tomáš Janko, Petr Knecht, Silvie Rita Kučerová, Jan Daniel Bláha</i>	
Theoretical concept of regional inequalities in the context of creating university textbook – regional development – factors, inequalities and cross-border cooperation.....	30
<i>Radoslav Klamár, Alena Madziková, Martin Rosič</i>	
Useful geography in education	46
<i>Jaromír Kolejka</i>	
Development studies and development geography in the system of Earth sciences	56
<i>Zdeněk Opršal, Pavel Nováček</i>	
European Union in the practical life of primary school pupils (at the 2nd level of primary schools in Slovakia).....	65
<i>Iveta Rakytová</i>	
The evaluation of potential contributions of outdoor education – teacher's versus pupil's point of view	82
<i>Hana Svobodová, Darina Míšařová, Radek Durna, Eduard Hofmann</i>	
Experience-based learning in teaching of the local landscape.....	91
<i>Ivana Tomčíková</i>	
Activating methods in geography teaching (geography by senses)	103
<i>Jana Vojteková, Michaela Žoncová</i>	
Geography and its application in education within the cross border cooperation project "Springs connecting" (case study).....	112
<i>Kamil Zágoršek, Emil Drápela, Tomáš Vitvar, Matthias Kändler, Jiří Šmíd, Hynek Böhm</i>	

PHYSICAL GEOGRAPHY, LANDSCAPE RESEARCH	119
Possibilities of air temperature data processing from the meteorological stations in Brno and surrounding area	119
<i>Karel Dejmal, Petr Kolář, Josef Novotný, Alena Roubalová</i>	
Water regime and prediction of its impact on river crossing in different types of zonal landscape	132
<i>Filip Dohnal, Marian Rybanský, Kateřina Šimková</i>	
The significance of historical landscape structure in South Moravia for the protection of the landscape, landscape function and the protection of agricultural land resources	143
<i>Marek Havlíček, Hana Skokanová, Bořivoj Šarapatka, Renata Pavelková, Patrik Netopil</i>	
InVEST software as a modelling tool for ecosystem services assessment (example of Pollinator Abundance model for Nitra and surrounding area)	154
<i>Martin Jančovič</i>	
Cultural heritage and geodiversity of landforms in the landscape of the Archdiocese of Olomouc.....	165
<i>Karel Kirchner, František Kuda, Lucie Kubalíková, Marek Havlíček, Ivo Machar, Vilém Pechanec</i>	
The pre-industrial landscape as a cultural heritage: Malá Haná.....	173
<i>Jaromír Kolejka</i>	
Natural aspects of the development of the landscape with dispersed settlement (example of the Hrušov village cadastral area)	187
<i>Ján Lacika, Ján Hanušín</i>	
New approaches to studies of extinct ponds	203
<i>Aleš Létal, Renata Pavelková, Patrik Netopil, Marek Havlíček, Václav David, Hana Skokanová, Jindřich Frajer, Bořivoj Šarapatka</i>	
Wetland – yes or no (The Paríž wetlands National Nature Reserve – Slovakia)	216
<i>František Petrovič, Matej Mojses, Zlatica Muchová</i>	
Analysis and assessment of land cover changes and landscape stability in the Nitra river basin (Slovakia)	227
<i>Matej Vojtek</i>	

Using multicriterial analysis to assess the diversification of rural landscape.....	237
<i>Michaela Žoncová, Jana Vojteková</i>	
CARTOGRAPHY, GIS AND DIGITAL TECHNOLOGIES 248	
Utilization of GIS in mapping invasive plant species of the River Nitra....	248
<i>Michaela Bencová, Vladimíra Lišková, Jozef Čažký, Dávid Tomko-Králo</i>	
New maps of the transport infrastructure's impact on biodiversity.....	259
<i>Ivo Dostál, Petr Anděl, Marek Havlíček</i>	
Visualization of Traffic Offences in the City of Brno (Czech Republic): Achieving 3D Thematic Cartography through Open Source and Open Data	270
<i>Lukáš Herman, Jan Russnák, Radim Stuchlík, Jiří Hladík</i>	
Dependence of occurrence of forest fires in Vysočina region on temperature and its spatial distribution	281
<i>Martin Hubacek, Sarka Hoskova-Mayerova, David Sladek, Karel Dejmal, Katerina Simkova</i>	
Interaction Primitives in 3D Geovisualizations	294
<i>Vojtěch Juřík, Lukáš Herman, Čeněk Šašinka</i>	
Old Roads in Dolní Pomoraví in the Mikulčice and Kopčany Area: Hypotheses Supported By the Analysis of Old Maps and Aerial Imagery.....	304
<i>Jaromír Kolejka, Martin Boltižiar, Matej Vojtek</i>	
Analyses of Availability Using GIS Taking into Consideration of Real Terrain	314
<i>Matej Močko, Martina Zigová, Michal Ševčík, Imrich Jakab</i>	
The Computation of Real Area Using GIS Demonstrated on Management of Invasive Plants	326
<i>Michal Ševčík, Petra Gašparovičová, Martina Zigová, Tomáš Rusňák, Imrich Jakab</i>	
Selected Indicators of Computer Literacy of the Population in Slovakia..	336
<i>Katarína Vilinová, Gabriela Repaská, Laura Babjaková</i>	

HUMAN GEOGRAPHY	345
Demographic development in Slovakia in 2016	345
<i>Miloš Bačík</i>	
Polish minority in the Czech part of Těšíns Silesia in 2017: can accent on schools prevent the entire assimilation?	355
<i>Hynek Böhm</i>	
Methodological issues of using the gravity model to determine the power of border effect	367
<i>Emil Drápela, Nikola Kárníková</i>	
Actors of territorial development in the city of Brno: focused on significant developers of housing construction.....	376
<i>Zdeněk Dvořák, Josef Kunc, Petr Tonev</i>	
Health geography – the context of health and the environment on the example of asthma diagnosis	389
<i>Dana Hübelová, Alice Kozumplíková, Jarmila Überhuberová</i>	
Comparison of Czech regions using Creativity Index	402
<i>Markéta Chaloupková</i>	
Military training areas and their hinterland in the Czech Republic with focus on tourism.....	413
<i>Martina Jaňurová, Aneta Krajičková</i>	
Weekend recreation as a tool for dispersed settlement preservation (case study of village Terchová)	425
<i>Dominika Kaisová</i>	
The design of a cycling route in the model territory of Levice and its surroundings	434
<i>Tomáš Kováč, Martin Boltížiar</i>	
Trade and economic relations of agricultural companies in the suburban region	447
<i>Ondřej Krejčí, Antonín Věžník</i>	
Geotourism within urban areas: new ways of promotion of natural and cultural heritage (case study from Brno city)	462
<i>Lucie Kubálková, Aleš Bajer</i>	
Experience to apply the method of assessing the recreational potential of suburban forests in urbanized areas	473
<i>Natálie Levandovská</i>	

City spatial structure in case study of the Russian cities Perm and Samara.....	482
<i>Libor Lněnička</i>	
Nitra wine region – the most diverse wine region in Slovakia.....	494
<i>Jana Némethová, Marek Civáň</i>	
Unrecognized state entities in the (geo)political space of the 21st century	506
<i>Štěpán Podhrázský</i>	
Quality of life evaluation in the municipality with a great employer: case study of the Mírov municipality	515
<i>Zdeněk Šilhan, Hana Svobodová</i>	
Specifics of the retail network spatial structure in the Piešťany town.....	525
<i>Miroslava Trembošová, Sandra Wiecková, Ivana Gálisová</i>	
Selected indicators of computer literacy of the population in Slovakia....	543
<i>Katarína Vilinová, Gabriela Repaská, Laura Babjaková</i>	
Potential of the tourism development in municipalities of the local action group Horný Liptov	553
<i>Gréta Vrbičanová, Hilda Kramáreková</i>	