

## CONTENTS

### SECTION PHISICAL GEOGRAPHY

<b>URBAN HEAT ISLAND INTENSITY OF ZAGREB IN SUMMER AND WINTER SEASON</b> Mladen Maradin, Anita Filipčić .....	3
<b>APPLICATION OF ELECTRICAL RESISTIVITY TOMOGRAPHY FOR SAND UNDERWATER EXTRACTION</b> Maya Grigorova, Ivaylo Koprev .....	15
<b>THE GIS MODELING OF THE TERRAIN FAVORABILITY FOR THE PLACEMENT OF CONSTRUCTIONS IN THE AREAS WITH HYDRO-GEOMORPHOLOGICAL RISK</b> Vasile Bogdan Ghindaoanu, Elena Hutanu, Andrei Urzica .....	21
<b>THE WATER RESOURCES IN THE TREBES-NEGEL HYDROGRAPHIC BASIN (ROMANIA)</b> Larisa Paveluc, Gianina Cojoc, Alina Tirnovan.....	31
<b>ASSESSMENT OF ORGANIC CARBON IN WETLANDS AND RIPARIAN ZONE. CASE STUDY: COMMON FLOODPLAIN OF JIJIA-PRUT RIVERS, ROMANIA</b> Mădălina Pascal, Elena Diana Bobric .....	39
<b>PALAEO VOLCANIC RELIEF FORMS AS A PART OF THE GEOHERITAGE IN THE REPUBLIC OF MACEDONIA, THEIR VALUATION AND PROTECTION</b> Anita Todorova, Dragan Kolchakovski .....	49
<b>THE DEVELOPMENT OF A MODEL-ALGORITHM FOR PREDICTING HAILSTORMS IN CENTRAL MACEDONIA, GREECE</b> Tzeni Antoniou, Theodore Karacostas.....	61
<b>A 10-YEAR CLIMATOLOGY OF LIGHTNING FOR MACEDONIA, GREECE</b> Paraskevi Roupa, Theodore Karacostas .....	69
<b>PALEOENVIRONMENT DATA AND VEGETATION HISTORY FROM A SMALL MESOTROPHIC SITE IN THE CURVATURE SUBCARPATHIANS. CASE STUDY: INK QUAKING BOG, ROMANIA</b> Vasilică Istrate, Alin Mișu-Pintilie, Angela Lupașcu, Irka Hajdas, Emilian Teleaga .....	79
<b>THE HUNTER-GATHERER COMMUNITIES FROM UPPER BIEBRZA BASIN - ENVIRONMENTAL CONTEXT. CASE STUDY FROM LIPOWO SITE (NE POLAND)</b> Marcin Frączek, Tomasz Kalicki, Adam Wawrusiewicz, Aleksander F. Sanko, Emanuela Małęga.....	87
<b>CHARACTERISTIC OF THE KRIVA BARA DEPOSIT AND EXTRACTION TECHNIQUES</b> Maya Grigorova, Ivaylo Koprev .....	95
<b>GEOHERITAGE AND GEOTOURISM IN THE REPUBLIC OF MACEDONIA</b> Anita Todorova, Dragan Kolchakovski, Olgica Dimitrovska .....	101

<b>STRUCTURE AND AGE OF TERRACES AND FLOOD PLAINS: CASE STUDY FROM THE CZARNA KONECKA (HOLY CROSS MOUNTAINS - POLISH UPLANDS)</b>	
Tomasz Kalicki, Piotr Kusztal, Mariusz Nowak, Dominika Zaborska .....	111
<b>KARST IN GYPSUM AREA: CASE STUDY NEAR WIŚLICA (POLISH UPLANDS)</b>	
Tomasz Kalicki, Emanuela Małęga, Marcin Frączek, Paweł Przepióra .....	119
<b>WEATHER FORECASTING VIA THE MODELING OF TEMPERATURE</b>	
Bhupendra Nath Tiwari, S. Chandra Kishore, Ninoslav Marina.....	127
<b>PHYLOGENETIC ANALYSIS OF ENDEMIC FISH SPECIES OF OHRID LAKE</b>	
Emilija Georgievska, Ljubinka Sandjakoska, Chandra Kishore, Ninoslav Marina, Joice Sophia Ponraj .....	135
<b>DEPOSITIONAL ENVIRONMENT CHARACTERISTICS OF UPPER CRETACEOUS SEDIMENTS IN HEKIMHAN BASIN (EASTERN ANATOLIA REGION, TURKEY): A BIOMARKER AND CARBON ISOTOPE APPROACH</b>	
Nazan Yalçın Erik .....	143
<b>APPLYING SCHMIDT-HAMMER EXPOSURE-AGE DATING (SHD) TO EVALUATE THE AGE OF PERIGLACIAL AND PARAGLACIAL FEATURES IN SOUTHERN NORWAY</b>	
Marr Philipp, Löffler Jörg .....	153
<b>COMPARISON OF LITHOLOGIC MAPPING WITH ASTER AND HYPERION DATA: A CASE STUDY IN THE NORTHERN OF ZARA (SİVAS), TURKEY</b>	
Oktay Canbaz, Rutkay Atun, Onder Gursoy, Ahmet Gokce, Tarik Turk, Anil Can Birdal.....	163
<b>THE LAST HUNTER-GATHERER COMMUNITIES FROM MIDDLE NAREW RIVER VALLEY - ENVIRONMENTAL CONTEXT. CASE STUDY FROM GRĄDY-WONIECKO SITE (NE POLAND - WIZNA BASIN)</b>	
Tomasz Kalicki, Marcin Frączek, Adam Wawrusiewicz.....	167

**SECTION**  
**SOCIO-ECONOMIC GEOGRAPHY**

<b>POLITICAL-GEOGRAPHICAL VALORIZATION OF THE BORDER SPACE OF BOSNIA AND HERZEGOVINA IN THE FUNCTION OF IDENTIFICATION OF POSSIBLE DIRECTIONS OF TRANSBORDER COOPERATION AND FORMATION OF PERSPECTIVE TRANSBORDER REGIONS</b>	
Igor Zekanović, Aleksandra Petrašević.....	179
<b>INTERNATIONAL MIGRATION IN EUROPE IN THE 21ST CENTURY</b>	
Kliment Naydenov .....	191
<b>A COMPARATIVE ANALYSIS OF INSTITUTIONAL FRAMEWORKS FOR NATIONAL PARKS IN THE COUNTRIES OF THE FORMER YUGOSLAVIA</b>	
Milan Lalić.....	199
<b>IMPACT OF DEMOGRAPHIC PROCESSES ON REGIONAL ECONOMIC DEVELOPMENT</b>	
Metodi Ivanov .....	207
<b>CHANGES IN THE RANK OF WORLD ECONOMIC CENTERS IN THE UNITED STATES – PRESENT STATE AND PERSPECTIVES</b>	
Piotr Raźniak, Sławomir Dorocki, Anna Winiarczyk-Raźniak.....	215
<b>EL SOLAR AND LA VIVIENDA VERNÁCULA AS EXAMPLES OF TRADITIONAL HOME CONSTRUCTION IN MEXICO’S YUCATÁN</b>	
Anna Winiarczyk-Raźniak, Piotr Raźniak .....	225
<b>DIVORCED MARRIAGES IN THE REPUBLIC OF MACEDONIA REGIONAL ANALYSES OF THE FREQUENCY</b>	
Marija Ljakoska, Mirjanka Madjevikj, Biljana Apostolovska Toshevaska .....	237
<b>CHANGES IN LAND USAGE OF RURAL AREAS IN SUBURBAN AREA OF KATOWICE CONURBATION</b>	
Marlena Dyszy .....	251
<b>MEDIA OF NATIONAL MINORITIES IN VOJVODINA</b>	
Bojan Đerčan, Tamara Lukić, Milka Bubalo-Živković .....	261
<b>IS THERE TARIFF MIMICKING? THE CASE OF WATER PROVISION IN POLAND</b>	
Paweł Swianiewicz, Julita Łukomska .....	269
<b>THE ROLE OF NATURAL TOURIST RESOURCES FOR BULGARIA’S TOURISM REPUTATION</b>	
Dora Kabakchieva, Vanya Vasileva, Sevdzhan Sabrieva, Mariana Angelova .....	277
<b>WHO IS RESPONSIBLE FOR THE POSITIVE NET MIGRATION IN THE REPUBLIC OF MACEDONIA?</b>	
Biljana Apostolovska Toshevaska, Mirjanka Madjevikj, Marija Ljakoska .....	287

<b>CLASSIFICATION OF THE EUROPEAN UNION COUNTRIES WITH RESPECT TO THE STANDARDS OF LIVING</b>	
Patryk Brambert, Iwona Kiniorska, Ewa Pałka-Łebek .....	301
<b>WESTERN BALKANS AS EU PERIPHERY: IS IT TIME FOR CHANGES?</b>	
Goran Mutabdzija.....	309
<b>CULTURAL AND RELIGIOUS GEOGRAPHY IN THE MEDIEVAL AND NEW AGE PERIOD IN TODAY'S REPUBLIC OF MACEDONIA</b>	
Snežana Filipova .....	317
<b>TOWARDS CREATIVE CITY. CASE STUDY OF KATOWICE</b>	
Wojciech Koman, Elżbieta Zuzańska-Żyśko .....	325
<b>MIGRATIONS OF POPULATION TO RURAL AREAS AS SUBURBANIZATION DEVELOPMENT FACTOR (SUB-URBAN AREAS) IN GÓRNOŚLĄSKO-ZAGŁĘBIOWSKA METROPOLIS</b>	
Marlena Dyszy, Elżbieta Zuzańska-Żyśko.....	335
<b>POTKOZARJE REGION (BiH): BETWEEN NODAL-FUNCTIONAL AND STATISTICAL REGION</b>	
Goran Mutabdzija.....	345
<b>HIKING TRAILS IN MACEDONIA: ASSESSING POTENTIALS FOR TOURISM DEVELOPMENT</b>	
Biljana Petrevska, Nikola Dimitrov .....	353
<b>THE STANDARD OF LIVING IN RURAL POPULATION OF POLAND</b>	
Patryk Brambert, Iwona Kiniorska, Ewa Pałka-Łebek .....	361
<b>MEASURING CONTENT OF SOME CROATIAN BUSINESS NEWSPAPERS: ANALYSIS OF DOMESTIC AND FOREIGN BUSINESS COMPANIES – GEOGRAPHICAL ASPECT</b>	
Jelena Lončar .....	367
<b>THE RESOURCE BASIS AS INCENTIVE FOR THE DEVELOPMENT OF RURAL TOURISM - CASE STUDY OF THE MOSLAVINA</b>	
Jelena Lončar, Zdenko Braičić.....	379
<b>LOCAL SELF-GOVERNMENT: REPUBLIC OF BULGARIA/ REPUBLIC OF MACEDONIA – PARALLELS</b>	
Dimitrina Naneva .....	393
<b>DAILY AND INTERNAL MIGRATION OF SELECTED ETHNIC GROUPS IN MUNICIPALITIES AND TOWNS OF THE REGION OF VOJVODINA (SERBIA)</b>	
Milka Bubalo-Živković, Bojana Kalenjuk, Tamara Lukić, Bojan Đerčan.....	399
<b>POPULATION MIGRATIONS IN A POLYCENTRIC CONURBATION</b>	
Sławomir Pytel.....	407

**SECTION**  
**CARTOGRAPHY, GIS & SPATIAL PLANNING**

<b>ALTERATION OF THE MORPHO-HYDROLOGICAL CONDITIONS OF THE AQUATIC COMPLEXES ADJACENT TO THE SF. GHEORGHE BRANCH (DANUBE DELTA) AS A RESULT OF THE HYDROTECHNICAL WORKS</b> Cristian Trifanov, Alin Mihiu-Pintilie, Marian Mierlă .....	421
<b>A GIS BASED TRACEABILITY SYSTEM SUGGESTION FOR A PASTRY FIRM OPERATING NATIONWIDE</b> Evren Gölge, Tarık Türk .....	433
<b>THE COMPARISON OF MATCH FILTERING AND SPECTRAL INFORMATION DIVERGENCE METHODS FOR DETECTING OF WATER QUALITY</b> Onder Gursoy, Rutkay Atun.....	443
<b>CADASTRE AND PROPERTY REGISTER IN REPUBLIC OF BULGARIA</b> Ganeta Minkova .....	447
<b>THE USAGE OF GEOTAGGED SOCIAL MEDIA PHOTOS AS A METHOD TO MONITOR THE TOURISM ACTIVITY IN THE DANUBE DELTA</b> Anca - Teodora Bulai, Cristina Zaharof, Octavian Groza.....	453
<b>USING GIS METHODS FOR MODELLING EXCEPTIONAL FLOOD EVENTS IN BASEU RIVER BASIN, NE ROMANIA</b> Andrei Urzica, Alin Mihiu-Pintilie, Elena Hutanu, Bogdan Vasile Ghindaoanu, Liviu Marian Albu.....	463
<b>THE USE OF GIS TECHNIQUES FOR OBTAINING POTENTIALLY FLOODABLE SURFACES IN THE JIJIA FLOODPLAIN</b> Elena Hutanu, Alin Mihiu-Pintilie, Andrei Urzica, Liviu Marian Albu, Vasile Bogdan Ghindaoanu.....	473
<b>MINING TRENDS AND THE POTENTIAL SPATIAL DEGRADATION IN THE EAST PLANNING REGION IN REPUBLIC OF MACEDONIA</b> Hristina Odzaklieska, Lidija Trpenoska, Olgica Dimitrovska .....	481
<b>EVALUATION OF THE PROPAGATION TIME OF A THEORETHICAL FLOOD WAVE IN THE CASE OF THE BREAKING OF CATAMARASTI DAM, BOTOSANI (ROMANIA)</b> Liviu-Marian Albu, Andrei Enea, Cristian-Constantin Stoleriu, Iosub Marina, Gheorghe Romanescu, Hutanu Elena .....	497
<b>INTEGRATING FLOOD RISK ASSESSMENT INTO MANAGEMENT PRACTICE (CASE STUDY IN BULGARIA)</b> Daniela Zlatunova .....	505
<b>THE DRONE - A METHODOLOGICAL TOOL, FOR GENERATING BASE LAYERS IN GIS</b> Enea Andrei, Iosub Marina, Stoleriu Cristian Constantin, Ursu Adrian, Romanescu Gheorghe.....	513

<b>MAPPING FLOODS USING OPEN SOURCE DATA AND SOFTWARE - SENTINEL-1 AND ESA SNAP</b>	
Catalin Ioan Cimpianu, Alin Miha-Pintilie.....	521
<b>IDENTIFYING FLOOD-PRONE RISK AREAS, USING GIS. CASE STUDY: OZANA DRAINAGE BASIN, ROMANIA</b>	
Marina Iosub, Andrei Enea, Marian Albu, Ionut Minea, Chelariu Oana Elena .....	531
<b>THE FLOOD IN VARNA CITY IN JUNE 2014 - A NATURAL OR MAN - MADE DISASTER?</b>	
Daniela Zlatunova .....	541
<b>COMPARATIVE, MULTI-PARAMETER MODELLING, AT A BASINAL AND SUB-BASINAL LEVEL, FOR FLOOD VULNERABILITY, IN TECUCEL WATERSHED</b>	
Andrei Enea, Liviu-Marian Albu, Marina Iosub, Andrei Urzica .....	549
<b>TOWARD PEER-TO-PEER DATA INTERCHANGE IN WEB-BASED GISs</b>	
Evgeny Panidi, Mark Mukhamedzyanov, Evgeny Kapralov .....	559
<b>VATRA DORNEI – FORESTRY LANDSCAPE DYNAMICS IN THE PAST 240 YEARS</b>	
Afloari Mihai, Graur Diana-Sofia, Horodnic Vasiliică-Dănuț, Efros Vasile .....	565
<b>GEOSPATIAL ANALYSIS OF LAND USE DYNAMICS USING HISTORICAL MAPS AND GIS TECHNIQUES. CASE STUDY OF RĂDĂUȚI, ROMANIA</b>	
Horodnic Vasiliică-Dănuț, Graur Diana-Sofia, Afloari Mihai, Efros Vasile .....	577
<b>CONTEMPORARY SOCIAL-GEOGRAPHIC PROCESSES IN REGIONAL DEVELOPMENT OF POTKOZARJE</b>	
Tanja Mišlicki Tomić, Aleksandra Petrašević .....	595
<b>INTEGRATION OF UNMANNED AERIAL VEHICLE DATA WITH GEOGRAPHICAL INFORMATION SYSTEMS</b>	
Tarık Türk, Anıl Can Birdal, Önder Gürsoy, Rutkay Atun.....	605

**SECTION  
TEACHING & EDUCATIONAL GEOGRAPHY**

**INNOVATIVE APPROACHES FOR ACHIEVING HIGHER QUALITY TRAINING OF  
FUTURE GEOGRAPHY TEACHERS IN BULGARIA**

Georgi Kotseff, Tony Traykov ..... 617

**EDUCATIONAL PROCESS IN GEOGRAPHY SPECIFICS AND PROSPECTS**

Maya Vasileva..... 623

**GEOGRAPHY EDUCATIONAL SYSTEM ANALYSIS FROM THE SOCIAL  
MANAGEMENT POSITIONS**

Maya Vasileva, Kliment Naydenov ..... 627

**RETHINKING THE ROLE OF RESEARCH PROJECT AS USEFUL METHOD IN  
GEOGRAPHY TRAINING**

Dessislava Poleganova ..... 633

**NORMATIVE FRAMEWORK (PRECONDITIONS) IN THE TRAINING OF  
GEOGRAPHY AND ECONOMICS IN 9-TH GRADE – LOGIC AND CHALLENGES**

Stella Dermendzhieva, Tamara Draganova..... 637