



UNIVERSITY OF NOVI SAD | FACULTY OF SCIENCE
DEPARTMENT OF GEOGRAPHY, TOURISM & HOTEL MANAGEMENT

INTERNATIONAL SCIENTIFIC JOURNAL

GEOGRAPHICA PANNONICA

Volume 20, Issue 4, December 2016

INTERNATIONAL SCIENTIFIC JOURNAL
GEOGRAPHICA PANNONICA

UNIVERSITY OF NOVI SAD | FACULTY OF SCIENCE | DEPARTMENT OF GEOGRAPHY, TOURISM & HOTEL MANAGEMENT

EDITOR IN CHIEF

Lazar Lazić, lazarus@uns.ac.rs

EDITORS

Slobodan Marković, slobodan.markovic@dgt.uns.ac.rs
Ivana Blešić, ivana.blesic@gmail.com
Tin Lukić, tin.lukic@dgt.uns.ac.rs
Jasmina Đorđević, jasminadjordjevic@live.com
Milka Bubalo Živković, milka.bubalo.zivkovic@dgt.uns.ac.rs
Mladen Jovanović, mladjenov@gmail.com

TECHNICAL EDITORS

Biljana Basarin, biljana.basarin@dgt.uns.ac.rs
Tamara Lukić, tamara.lukic@dgt.uns.ac.rs
Dragan Milošević, dragan.milosevic@dgt.uns.ac.rs

EDITORIAL BOARD

Armelle Decaulne
CNRS UMR6042 - GEOLAB
Clermont-Ferrand cedex, Paris, France &
Natural Research Centre of North-western Iceland
Saudarkrokur, Iceland

Slobodan B. Marković
University of Novi Sad
Faculty of Science
Novi Sad, Serbia

Tobias Heckmann
Department of Geography, Physical Geography
Catholic University Eichstaett-Ingolstadt
Eichstätt, Germany

János Kovács
University of Pécs
Faculty of Science
Department of Geology
Pécs, Hungary

Petru Urdea
West University of Timișoara
Department of Geography
Timișoara, Romania

Péter Domonkos
University Rovira i Virgili de Tarragona
Geography Department
Center on Climate Change (C3)
Tarragona, Spain

Tamás Weidinger

Eötvös Loránd University
Institute of Geography and Earth Science
Department of Meteorology
Budapest, Hungary

Thomas Borén

Department of Human Geography
Stockholm University
Stockholm, Sweden

Tadeusz Strykiewicz

Adam Mickiewicz University
Institute of Socio-Economic Geography and Spatial
Management
Poznań, Poland

Marko Krevs

University of Ljubljana
Faculty of Art, Department of Geography
Ljubljana, Slovenia

Horst Förster

Universität Tübingen
Geographisches Institut
Tübingen, Germany

Károly Kocsis

Geographical Research Institute
of the Hungarian Academy of Sciences
Budapest, Hungary

Konstantinos Andriotis

Cyprus University of Technology
Department of Hotel & Tourism Management
Cyprus

Jung Sung-Chae

Honam University
Department of Tourism Management
Gwangju, South Korea

ADVISORY BOARD

Ulrich Hambach

Geowissenschaften Universität Bayreuth
LS Geomorphologie
Bayreuth, Germany

Milivoj Gavrilov

University of Novi Sad
Faculty of Science
Novi Sad, Serbia

Darko Ogrin
University of Ljubljana
Faculty of Art, Department of Geography
Ljubljana, Slovenia

Nina Nikolova
"St. Kliment Ohridski" University of Sofia
Faculty of Geology and Geography
Department of Climatology, Hydrology and
Geomorphology
Sofia, Bulgaria

Anna Leonowicz
University of Zurich
Department of Geography
Geographic Information Science (GIS)
Zurich, Switzerland

Zorana Lužanin
University of Novi Sad
Faculty of Science
Novi Sad, Serbia

Gregory J. Ashworth
University of Groningen
Faculty of Spatial Science
Groningen, The Netherlands

Carlos Ferrás Sexto
University of Santiago de Compostela
Geography Department
Santiago de Compostela, Spain

Lajos Boros
University of Szeged
Department of Economic and Social Geography
Szeged, Hungary

Branislav S. Đurđev
University of Novi Sad
Faculty of Science
Novi Sad, Serbia

Milka Bubalo-Živković
University of Novi Sad
Faculty of Science
Novi Sad, Serbia

Elena Matei
Bucharest University
Faculty of Geography
Bucharest, Romania

Yoel Mansfeld
University of Haifa
Department of Geography and Environmental Studies
Center for Tourism, Pilgrimage & Recreation Research
Haifa, Israel

Klodiana Gorica
University of Tirana
Faculty of Economics, Department of Marketing
Tirana, Albania

Damir Demonja
Institute for Development
and International Relations, IRMO,
Zagreb, Croatia

EDITORIAL OFFICE

Faculty of Science
Department of Geography, Tourism and Hotel Management
Trg Dositeja Obradovića 3, 21000 Novi Sad, Serbia
tel. +381 21 450-105
fax +381 21 459-696
Official site: www.dgt.uns.ac.rs

CONTACTS

Lazar Lazić, PhD, full professor
Department of Geography, Tourism and Hotel Management, Serbia, lazarus@uns.ac.rs

Tin Lukić, PhD, assistant professor
Department of Geography, Tourism and Hotel Management, Serbia, tin.lukic@dgt.uns.ac.rs

Official mail of the Journal
gpscijournal@gmail.com

Internet portal
www.dgt.uns.ac.rs/pannonica.html

Instructions to authors
www.dgt.uns.ac.rs/pannonica/instructions.htm

PRINTED BY

www.futura.rs

CIRCULATION

300

Contents

Bálint Csendes, László Mucsi

- Inland excess water mapping using hyperspectral imagery 191
DOI: [10.18421/GP20.04-01](https://doi.org/10.18421/GP20.04-01)

Marko Urošev, Dragan Dolinaj, Igor Leščešen

- Hydrological droughts in the Južna Morava river basin (Serbia) 197
DOI: [10.18421/GP20.04-02](https://doi.org/10.18421/GP20.04-02)

Rastislav Stojavljević, Sanja Božić, Milica Kovačević, Milka Bubalo Živković, Đurđa Miljković

- Influence of selected climate parameters on tourist traffic of Kopaonik and Zlatibor mountains
(Republic of Serbia) 208
DOI: [10.18421/GP20.04-03](https://doi.org/10.18421/GP20.04-03)

Ivan Marinković, Biljana Radivojević

- Mortality trends and depopulation in Serbia 220
DOI: [10.18421/GP20.04-04](https://doi.org/10.18421/GP20.04-04)

Slaven Kliček, Jelena Lončar

- Analysis of migration trends and functions of areas inhabited by Roma:
example of Međimurje county (Croatia) and the settlement of Kuršanec 227
DOI: [10.18421/GP20.04-05](https://doi.org/10.18421/GP20.04-05)

Bianca Mitrică, Nicoleta Damian, Irena Mocanu, Paul Șerban, Radu Săgeată

- Technical-urbanistic infrastructure in the Romanian Danube Valley.
Urban vs. rural territorial disparities 242
DOI: [10.18421/GP20.04-06](https://doi.org/10.18421/GP20.04-06)

Tin Lukić, Sanja Božić, Dušan Sakulski, Snežana Babić-Kekez, Ljubica Ivanović Bibić, Snežana Besermenji, Marija Bura, Zorica Dubovina, David Davidović, Dragan Dolinaj

- Achieving competencies with grammar school students
through utilisation of selected didactical principles in traditional and active teaching –
geography class case study: "Hydrography of Serbia" 254
DOI: [10.18421/GP20.04-07](https://doi.org/10.18421/GP20.04-07)