**Ioan-Aurel IRIMUŞ** is Professor of Physical Geography at the Babeș-Bolyai University (BBU), Faculty of Geography, Cluj (Romania). He is also member of the Research Center

of Geographical Hazards and Risks, BBU/Cluj.

**Area of competence**: physical geography, geomorphology,applied geomorphology.

**Research interests** fall into three major areas:

**1.** **Geomorphological hazards and risks.**

The most significant publications include: *Hazarde şi riscuri asociate proceselor geomorfologice în aria cutelor diapire din Depresiunea Transilvaniei*. Editura Casa Cărţii de Ştiinţă, Cluj-Napoca, ISBN 973-686-850-8,p.287(Irimus,I.A.,2006). *Dendrogeomorphological assessement and sediment transfer of natural vs.mining-induced debris-flow activity in Cãlimani Mountains, Eastern Carpathians*, *Romania.* Rev.GEOMORPHOLOGY,Volume:327,Pages:188-200,DOI: 10.1016/j. geomorph. 2018. 10. 028, Published: FEB 15 2019, Accession Number: WOS:000456491600013 (with Pop, O.Tr., Germain, D., Mesesan, Fl., Gavrila, I.G., Alexe, M., Buzila, L., Holobâca, I.); *Landslide susceptibility assessment in Almas basin by Means of the Frecquency Rate and GIS Techniques,* Geographia Technica, Vol.12, Issue 2, pp. 97-109/ 2017. Doi:1021163/GT\_2017.122.09;Accession Nr: WOS:000419795100009 (with Rosca, Sanda; Rus, Madalina-Ioana; Marian, Flavia Luana; Bilasco, Stefan; *Quantitative Estimation of Annual Average Rate of Soil Erosion in the Almas Hydrographical Basin, Using USLE and GIS*.15th International Multidisciplinary Scientific GeoConference on Informatics, Geoinformatics and Remote Sensing, Conference Proceedings/Vol.II, Geodesy & Mine Surveying, Cartogrphy & GIS.,p.1071-1079. ISSN 1314-2704/ ISBN 978-619-7105-35-3 /DOI :10.5593/ sgem 2015B22 (with Mădălina-Ioana Rus , Cioban, T.D., Bilașco, St);*Vulnerability of diapiric regions under the impact of anthropic activities. Case studies in Zakarpattia (UA) and the Transylvania Depression (RO).*Vol.SGEM „Ecology, Economics, Education and Legislation”, Conference Proceedings ISI/Vol.II Ecology & Environmental Protection, p.819-831. ISSN 1314-2704/ ISBN 978-619-7105-18-6/ DOI: 10.5593/ sgem 2014B52 (with Toma, Bianca, Petrea ,D., Ciobanu,T.,Togănel, C.).

 **2. Geomorphosites and their tourist valorization**

This research topic encompass the uneven geographical development on geomorphosites and the role of tourism in local and regional development.

The most significant publications include: *Vulnerabilty of Touristic Geomorphosites in Transylvanian Saliferous Areas.* Rev GeoJournal of Tourism and Geosites. Year IV/2011/no.2/vol.8.ISSN 2065-0817, E- ISSN 2065-1198, Oradea-Gdansk 2011(with D. Petrea, I.Vescan, Camelia Bianca Toma, Ioana Vieru); *Classification and Evaluation Criteria for Volcanic Geomorphosites in Harghita Mountains.*in vol. 15th International Multidisciplinary Scientific Geoconference (SGEM), Pages:77-84, Accession Number: WOS:000371662300010 (with Bálint-Bálint, L., Dombay, St., Crişan, H.F., Magyari-Saska, Zs. (2015); *Weathering Processes and Their Effects on Sandstone as Building Material. Case Study: The Stone-Built Foundation of The Holy Archangels Church in Deag Village, Transylvania.* In vol.International Multidisciplinary Scientific GeoConference - SGEM Pages: 537-542, Accession Number: WOS:000370814500071(with Ilieş, Monica, Buzilã, L, Ciobanu, T., (2015),

**3.** **Dynamics of geographical landscapes in the context of climate change.**

This topic includes a range of articles and books expressing the strong commitment of the author to the policy relevance of geographic research. The most significant publications include:

 *Climate and Land Use Impacts on Natural and Artificial Systems. Chapter 13 - Groundwater vulnerability assessment in the Iberian Peninsula under climate and land cover changes*, https://doi.org/10.1016/B978-0-12-822184-6.00017-X. Pages:225-250, Elsevier (with Mărgărit-Mircea Nistor, Alexandru-Sabin Nicula, Ioan Surdu, Titus Cristian Man, Nikhil Nedumpallile Vasu, Iulius-Andrei Carebia, Shankar Acharya Kamarajugedda (2021); *Groundwater vulnerability GIS Models in the Carpathian Mountains under Climate and Land Cover Changes. Applied Ecology and Environmental Research*, Vol.16, Issue 4, p.5095-5116. Doi: http: //dx.doi.org/ 10.15666/ aeer (with Nistor, M M., Nicula, AS., Cervi, F., Man, TC., Surdu, I, 2018); *Crop evapotranspiration assessment under climate change in the Pannonian basin during 1991–2050.* METEOROLOGICAL APPLICATIONS, Volume: 24 Issue: 1 Pages: 84-91DOI: 10. 1002/ met. 1607. Published: JAN 2017 Accession Number: WOS:000393217100009 (with Mărgărit-Mircea Nistor, Sorin Cheval, Alessandro F. Gualtieri, Alexandru Dumitrescu, Vanessa E. Boţan, Alex Berni, Gh. Hognogi, Cosmin G. Porumb , 2017); *La Reconstruction des Paleo-paysages Transylvains a partir des Routes et des Castres romains de Dacia Porolissensis*.Vol. „Ol’ Man River”- Geo-Archaeological Aspects of Rivers and Rivers Plains, ISBN 978-90-382-1404 -7, p.483- 497, Ghent, Ed.Academia Press, Belge (with Petrea, D., Surdeanu,V., Fodorean, Fl., Pop, O., 2009);*Danube Delta. Genesis and Biodiversity*. *Cap.4*, p.53-64. Ed. Backhuys Publishers BV, ISBN 90-5782 -165- 6, p.440, PO Box 321, 2300 AH Leiden, The Netherlands (with Tudorancea, C.& colab. (2006),.

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