

ISI journals

1. Popov, A.B., Minár, J., **Drăguț, L.**, 2025. Physically-based digital geomorphological mapping: Case study of glacial and karst topography. *Geomorphology*, 109539, <https://doi.org/10.1016/j.geomorph.2024.109539>
2. Dornik, A., Chețan, M.A., Crișan, T.E., Heciko, R., Gora, A., **Drăguț, L.**, Panagos, P., 2024. Geospatial evaluation of the agricultural suitability and land use compatibility in Europe's temperate continental climate region. *International Soil and Water Conservation Research*, 908-919, <https://doi.org/10.1016/j.iswcr.2024.01.002>
3. Minár, J., **Drăguț, L.**, Evans, I.D., Feciskanin, R., Gallay, M., Jenčo, M., Popov, A., 2024. Physical geomorphometry for elementary land surface segmentation and digital geomorphological mapping. *Earth-Science Reviews*, 104631, <https://doi.org/10.1016/j.earscirev.2023.104631>
4. Newman, D. R., Saurette, D. D., Cockburn, J. M. H., **Drăguț, L.**, & Lindsay, J. B., 2023. Assessing spatially heterogeneous scale representation with applied digital soil mapping. *Environmental Modelling & Software*, 160, 105612. <https://doi.org/10.1016/j.envsoft.2022.105612>
5. Dornik, A., Chețan, M. A., **Drăguț, L.**, Iliuță, A., & Dicu, D. D., 2022. Importance of the mapping unit on the land suitability assessment for agriculture. *Computers and Electronics in Agriculture*, 201, 107305. <https://doi.org/10.1016/J.COMPAG.2022.107305>
6. Newman, D. R., Cockburn, J. M. H., **Drăguț, L.**, & Lindsay, J. B., 2022. Local scale optimization of geomorphometric land surface parameters using scale-standardized Gaussian scale-space. *Computers & Geosciences*, 165, 105144. <https://doi.org/10.1016/J.CAGEO.2022.105144>
7. Dornik, A., **Drăguț, L.**, Oguchi, T., Hayakawa, Y., & Micu, M., 2022. Influence of sampling design on landslide susceptibility modeling in lithologically heterogeneous areas. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-06257-w>
8. Dornik, A., Chețan, M. A., **Drăguț, L.**, Dicu, D. D., & Iliuță, A., 2022. Optimal scaling of predictors for digital mapping of soil properties. *Geoderma*, 405. <https://doi.org/10.1016/j.geoderma.2021.115453>
9. Pleșoianu, A.-I., Stupariu, M.-S., Șandric, I., Pătru-Stupariu, I., **Drăguț, L.**, 2020. Individual tree-crown detection and species classification in very high-resolution remote sensing imagery using a deep learning ensemble model. *Remote Sensing*, 12 (15), 2426.
10. Hegyi, A., Vernica, M.M., **Drăguț, L.**, 2020. An object-based approach to support the automatic delineation of magnetic anomalies. *Archaeological Prospection*, 27, 3-12.
11. Sîrbu, F., **Drăguț, L.**, Oguchi, T., Hayakawa, Y., Micu, M., 2019. Scaling land-surface variables for landslide detection. *Progress in Earth and Planetary Science*, 6:44. (Corresponding Author)

12. **Drăguț, L.**, Belgiu, M., Popescu, G., Bandura, P., 2019. Sensitivity of multiresolution segmentation to spatial extent. *International Journal of Applied Earth Observation and Geoinformation*, 81, 146-153.
13. Sărășan, A., Józsa, E., Ardelean, A.C., **Drăguț, L.**, 2019. Sensitivity of geomorphons to mapping specific landforms from a digital elevation model: A case study of drumlins. *Area*, 51(2), 257-267.
14. Pârvulescu, L., Pérez-Moreno, J.L., Panaiotu, C., **Drăguț, L.**, Schrimpf, A., Popovici, I.D., Zaharia, C., Weiperth, A., Gál, B., Schubart, C.D., 2019. A journey on plate tectonics sheds light on European crayfish phylogeography. *Ecology and Evolution*, 9(4), 1957-1971.
15. Dornik, A., **Drăguț, L.**, Urdea, P., 2018. Classification of soil types using geographic object-based image analysis and Random Forest. *Pedosphere*, 28(6), 913-925.
16. Bandura, P., Minar, J., **Drăguț, L.**, Harcinikova, T., 2017. Evaluation of object-based image analysis for morphostructural subdivision of the Western Carpathians. *Zeitschrift für Geomorphologie Supplementbände*, 61(2), 121-135.
17. Hayakawa, Y. S., Yoshida, H., **Drăguț, L.**, Oguchi, T., 2017. [Automated extraction of hummocks in debris avalanche deposits using DEMs: A case study at Mt. Gassan, northwest Japan](#). *Zeitschrift für Geomorphologie Supplementbände*, 61(2), 199-212.
18. Pârvulescu L., Zaharia C., Groza, M.I, Csillik, O., Satmari A., **Drăguț L.**, 2016. Flash-flood potential: a proxy for crayfish habitat stability. *Ecohydrology*, 9 (8), 1507-1516.
19. Walz, U., Hoehstetter, S., **Drăguț, L.**, Blaschke, T., 2016. Integrating time and the third spatial dimension in landscape structure analysis. *Landscape Research*, 41 (3), 279-293.
20. Belgiu, M., **Drăguț, L.**, 2016. Random forest in remote sensing: A review of applications and future directions. *ISPRS Journal of Photogrammetry and Remote Sensing*, 114, 24-31. **Hot Paper**.
21. Dornik, A., **Drăguț, L.**, Urdea, P., 2016. Knowledge-based soil type classification using terrain segmentation. *Soil Research*, 54 (7), 809-823.
22. **Drăguț, L.**, Dornik, A., 2016. Land-surface segmentation as a method to create strata for spatial sampling and its potential for digital soil mapping. *International Journal of Geographical Information Science*, 30 (7), 1359-1376.
23. Csillik, O., Evans, I.S., **Drăguț, L.**, 2015. Transformation (normalization) of slope gradient and surface curvatures, automated for statistical analyses from DEMs. *Geomorphology*, 232: 65-77.
24. Belgiu, M. & **Drăguț, L.**, 2014. Comparing supervised and unsupervised multiresolution segmentation approaches for extracting buildings from very high resolution imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*, 96, 67-75.
25. **Drăguț, L.**, Csillik, O., Eisank, C., Tiede, D., 2014. Automated parameterisation for multi-scale image segmentation on multiple layers. *ISPRS Journal of Photogrammetry and Remote Sensing*, 88: 119-127. **Highly Cited Paper**.
26. Belgiu, M., **Drăguț, L.**, Strobl, J., 2014. Quantitative evaluation of variations in rule-based classifications of land cover classes in urban neighbourhoods

- using WorldView-2 imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*, 87: 205-215.
27. Pârvulescu L., Zaharia C., Satmari A., **Drăguț L.**, [2013](#). Is the distribution pattern of the stone crayfish in the Carpathians related to karstic refugia from Pleistocene glaciations? *Freshwater Science* 32: 1410–1419.
 28. Ardelean, F., **Dragut, L.**, Urdea, P., Torok-Oance, M., 2013. Variations in landform definition: a quantitative assessment of differences between five maps of glacial cirques in the Tarcu Mountains (Southern Carpathians, Romania). *Area* 45: 348-357.
 29. d’Oleire-Oltmanns, S., Eisank, C., **Drăguț, L.** and Blaschke, T., 2013. An Object-Based Workflow to Extract Landforms at Multiple Scales From Two Distinct Data Types. *IEEE Geoscience and Remote Sensing Letters* 10: 947-951.
 30. **Drăguț, L.** and Eisank, C., 2012. Automated classification of topography from SRTM data using object-based image analysis, *Geomorphology* 141-142: 21-33 [doi: 10.1016/j.geomorph.2011.12.001](#).
 31. Verhagen, P. and **Drăguț, L.**, 2012. Object-based landform classification from DEMs for archaeological predictive mapping, *Journal of Archaeological Science* 39: 698-703 [doi: 10.1016/j.jas.2011.11.001](#).
 32. **Drăguț, L.**, Eisank, C. and Strasser, T., 2011. Local variance for multi-scale analysis in geomorphometry, *Geomorphology* 130: 162-172 [doi:10.1016/j.geomorph.2011.03.011](#).
 33. **Drăguț, L.** and Eisank, C., 2011. Object representations at multiple scales from Digital Elevation Models, *Geomorphology* 129: 183-189, [doi:10.1016/j.geomorph.2011.03.003](#).
 34. **Drăguț, L.**, Tiede, D. and Levick, S., 2010. ESP: a tool to estimate scale parameters for multiresolution image segmentation of remotely sensed data, *International Journal of Geographical Information Science* 24: 859-871. **Highly Cited Paper.**
 35. **Drăguț, L.**, Schuppenlehner, T., Muhar, A., Strobl, J. and Blaschke, T., 2009. Optimization of scale and parametrization for terrain segmentation: an application to soil-landscape modeling, *Computers & Geosciences* 35: 1875-1883, [doi:10.1016/j.cageo.2008.10.008](#).
 36. Luscier, J.D, Thompson, W.L, Wilson, J.M, Gorham, B.E. and **Drăguț, L.D.**, 2007. [Techniques for determining percent ground cover – Reply](#), *Frontiers in Ecology and the Environment* 5: 240-240.
 37. **Drăguț, L.** and Blaschke, T., 2006. Automated classification of landform elements using object-based image analysis, *Geomorphology* 81: 330-344, [doi:10.1016/j.geomorph.2006.04.013](#).
 38. Luscier, J.D, Thompson, W.L, Wilson, J.M, Gorham, B.E. and **Drăguț, L.D.**, 2006. [Using digital photographs and object- based image analysis to estimate percent ground cover in vegetation plots](#), *Frontiers in Ecology and the Environment* 4: 408-413, [doi:10.1890/1540-9295\(2006\)4\[408:UDPAOI\]2.0.CO;2](#).

Books

1. Schreiber, W., **Drăguț, L.** and Man, T. (editors.), 2003. *Landscape analysis in the Western side of the Transylvanian Plain*. Cluj University Press, 135 pp. (in Romanian, with TOC and abstract in English).

2. **Drăguț, L.** (2002): The Șureanu Mountains. A Geomorphologic study. PhD Thesis, manuscript, 193 pp (in Romanian).
3. **Drăguț, L.**, 2000. *Landscape Geography*. Cluj University Press, Cluj-Napoca, 119 pp (in Romanian).

ISI Proceedings & Scopus indexed

1. Newman, D. R., Cockburn, J. M. H., Drăguț, L., & Lindsay, J. B. (2022). Evaluating Scaling Frameworks for Multiscale Geomorphometric Analysis. *Geomatics*, 2(1). <https://doi.org/10.3390/geomatics2010003>
2. Jozsa, E., Loczy, D., Soldati, M., **Drăguț, L.** and Szabo, J., 2019. Distribution of landslides reconstructed from inventory data and estimation of landslide susceptibility in Hungary. *Hungarian Geographical Bulletin* 68: 255-267.
3. Eisank, C., **Drăguț, L.**, Götzt, J. and Blaschke, T., 2010. [Developing a semantic model of glacial landforms for object-based terrain classification - the example of glacial cirques](#). In: *GEOBIA 2010-Geographic Object-Based Image Analysis*, edited by Addink, E.A. and Van Coillie, F.M.B. Book Series: International Archives of the Photogrammetry Remote Sensing and Spatial Information Sciences Volume: 38-4-C7.
4. **Drăguț, L.**, Walz, U. and Blaschke, T., 2010. The third and fourth dimensions of landscape: towards conceptual models of topographically complex landscapes. *Landscape Online* 22: 1-10, [doi:10.3097/LO.201022](https://doi.org/10.3097/LO.201022).
5. Cristea, V., Gafta, D., Baci, C., Goia, I., **Drăguț, L.** and Coroiu, I., 2003. Multidisciplinary assessment of the landscape development around the Cluj-Napoca city (Romania). In *Multifunctional Landscapes: monitoring, diversity and management*, edited by Brandt, J. and Vejre, H. Advances in Ecological Sciences **15**. WIT Press, pp. 271-285.

Articles in edited volumes

1. Eisank, C. and **Drăguț, L.**, 2010. Detecting characteristic scales of slope gradient. In: *Geospatial Crossroads @ GI_Forum '10. Proceedings of the Geoinformatics Forum Salzburg*, edited by Car, A., Griesebner, G. and Strobl, J., Wichmann, pp. 48-57.
2. **Drăguț, L.** and Blaschke, T., 2008. [Terrain segmentation and classification using SRTM data](#). In *Advances in Digital Terrain Analysis*, edited by Zhou, Q., Lees, B. and Tang, G.A. Series Lecture Notes in Geoinformation and Cartography, Springer, pp. 141- 158.
3. Muntean, O.L., **Drăguț, L.**, Baci, N., Man, T., Buzilă, L. and Ferencik, I., 2007. Environmental impact assessment as a tool for environmental restoration (a case study: Copșa-Mică area, Romania). In *Use of Landscape Sciences for the Assessment of Environmental Security*, edited by Petrosillo, I., Müller, F., Jones, K.B., Zurlini, G., Krauze, K., Victorov, S., Li, B.-L., Kepner, W.G. Springer, pp. 461-474.
4. **Drăguț, L.** (2003), *Cap. 3.1.- Cadrul teoretic*, În: "Analiza peisajelor geografice din partea de vest a Câmpiei Transilvaniei", Eds. Schreiber, W., Drăguț, L., Man, T. (Cluj-Napoca, Presa Universitară Clujeană), pp. 10-12.
5. **Drăguț, L.**, Man, T. (2003), *Metode de analiză și evaluare a peisajului ca entitate globală*, În: "Analiza peisajelor geografice din partea de vest a Câmpiei Transilvaniei", Eds. Schreiber, W., Drăguț, L., Man, T. (Cluj-Napoca, Presa Universitară Clujeană), pp. 12-29.

6. **Drăguț, L.**, Man, T., Schreiber, W. (2003), *Unitățile elementare ale peisajului*, În: ”*Analiza peisajelor geografice din partea de vest a Câmpiei Transilvaniei*”, Eds. Schreiber, W., Drăguț, L., Man, T. (Cluj-Napoca, Presa Universitară Clujeană), pp. 79-93.
7. Schreiber, W., **Drăguț, L.** (2003), *Tipuri de peisaje geografice*, În: ”*Analiza peisajelor geografice din partea de vest a Câmpiei Transilvaniei*”, Eds. Schreiber, W., Drăguț, L., Man, T. (Cluj-Napoca, Presa Universitară Clujeană), pp. 106-109.
8. Buzilă, L., **Drăguț, L.**, Drăgulean, V., Baciuc, C. (2002): Geomorphology and geomorphologic risk assessment. In: „Municipiul Cluj-Napoca și zona periurbană”, Eds. Cristea, V., Baciuc, C. and Gafta, D. (Cluj-Napoca: Edit. Accent), 15-25, (in Romanian).

Articles in national and international refereed journals

1. Peter Bandura, Jozef Minár, **Lucian Drăguț**, 2019. Morphometrical-morphostructural subdivision of the Western Carpathians by Object-based image analysis. *Geomorphologia Slovaca et Bohemica* 19 (1): 5-104.
2. Bandura, P., Minár, J., **Drăguț, L.**, 2018. [Physically-based segmentation of the Western Carpathians \(Central Europe\)](#). PeerJ Preprints, 6, e27083v27081.
3. Minar, J., Bandura, P., Holec, J., Popov, A., **Drăguț, L.**, Gallay, M., Hofierka, J., Kaňuk, J., Evans, I.S., 2018. [Physically-based land surface segmentation: Theoretical background and outline of interpretations](#). PeerJ Preprints, 6, e27075v27071.
4. Peter Bandura, Jozef Minár, Tatiana Harciníková, **Lucian Drăguț**, 2015. [Towards delineation of the morphostructural division of the Western Carpathians using object-based image analysis](#). *Geomorphometry for natural hazards geomodelling*, Poznań, Poland; 06/2015.
5. Hayakawa, Y.S., Yoshida, H., **Drăguț, L.**, Oguchi, T., 2015. Comparative analysis of manual and automatic extractions of hummock landforms in Mt. Gassan, northwestern Japan. *Geomorphometry for natural hazards geomodelling*, Poznań, Poland; 06/2015.
6. Csillik, O., Evans, I.S., **Drăguț, L.**, 2015. Automated transformation of slope and surface curvatures to avoid long tails in frequency distributions. *Geomorphometry for natural hazards geomodelling*, Poznań, Poland; 06/2015, 119-122.
7. **Drăguț, L.**, Dornik, A., 2013. [Evaluation of land-surface segmentation as support for soil sampling](#). *Proceedings of Geomorphometry2013*, Nanjing, China, O-16-1-O16-4.
8. **Drăguț, L.**, Csillik, O., Minár, J., Evans, I.S., 2013. [Land surface segmentation to delineate elementary forms from Digital Elevation Models](#), *Proceedings of Geomorphometry2013*. Nanjing, China, O-6-1-O-6-4.
9. Verhagen, J., Drăguț, L., 2013. [Discovering the Dutch Mountains. An experiment with automated landform classification for purposes of archaeological predictive mapping](#), in: Contreras, F., Farjas, M., Melero, F.J. (Eds.), *Proceedings of the 38th Annual Conference on Computer Applications and Quantitative Methods in Archaeology, CAA2010*, Granada, Spain, pp. 213-216.
10. d'Oleire-Oltmanns, S., **Eisank, C.**, **Drăguț, L.**, Schrott, L., Marzolf, I. and **Blaschke, T.**, 2012. [Object-based landform mapping at multiple scales](#)

- [from digital elevation models \(DEMs\) and aerial photographs. *Proceedings of the 4th GEOBIA*, 7-9 May 2012, Rio de Janeiro, Brazil, 496-500.](#)
11. Eisank, C., **Drăguț, L.** and Blaschke, T., 2011. A generic procedure for semantics-oriented landform classification in object-based image analysis, *Proceedings of Geomorphometry2011*, Redlands, California, USA, 125-128.
 12. **Drăguț, L.** and Eisank, C., 2011. Automated classification of topography from SRTM data using object-based image analysis, *Proceedings of Geomorphometry2011*, Redlands, California, USA, 113-116.
 13. **Drăguț, L.**, Eisank, C., Strasser, T. and Blaschke, T., 2009. [A comparison of methods to incorporate scale in geomorphometry.](#) *Proceedings of Geomorphometry2009*, 133-139.
 14. **Drăguț, L.**, Schreiber, E.W., Muntean, O.L., and Man, T., 2005. The Evaluation of Landscape in the Transylvanian Plain (Romania). *EcoSys 11*: 162 - 168.
 15. Muntean, O.L., **Drăguț, L.** and Baciu, N., 2005. Minimum Data Sets for Landscape Indicators using GIS (A Case Study: Târnava Mare Corridor, Romania). *EcoSys 11*: 24 - 31.
 16. Baciu, C., Costin, D., **Drăguț, L.**, Buzilă, L. and Mureșan, A., 2004. The role of geosciences in designing modern railways. *Environment & Progress 2*: 321-324 (in Romanian).
 17. Baciu, C., Costin, D., Buzilă, L., Constantina, C., **Drăguț, L.**, Mureșan, A. and Ianoliu, C., 2003. The assessment of natural elements for the optimal design of the railway between Apahida and Câmpia Turzii. *Environment & Progress 1*: 15-18 (in Romanian).
 18. Muntean, L., Baciu, N. and **Drăguț, L.**, 2003. Environmental Decline Assessment in Copșa Mică Area (Romania). *EcoSys 10*: 98-106.
 19. Muntean, O. L. and **Drăguț, L.**, 2003. The Quality of Life Within the Context of Environmental Decline (A Study Case: Copșa Mică Area, Romania). *Studia Universitatis Babeș-Bolyai, Geographia XLVIII/1*: 9-13.
 20. Schreiber, W., **Drăguț, L.** and Man, T., 2003. Landschaftsentwicklung in der westlichen Siebenbürger Heide (Rumänien). *Würzburger Geographische Manuskripte 63*: 145-152.
 21. Urdea, P., **Drăguț, L.** (2002-2003), *Noi date asupra reliefului glaciara și periglaciara din Munții Șureanului*, Studii și Cercetări de Geografie, XLIX-L, București, 191-206.
 22. **Drăguț, L.**, Man, T., Schreiber, W. E. (2002), *Analiza comparativă a unităților elementare de peisaj din partea de vest a Câmpiei Transilvaniei*, Studia Universitatis Babeș-Bolyai, Geographia XLVIII/1, p. 25-30.
 23. **Drăguț, L.**, Man, T., Schreiber, W. E. (2001), *A landscape study using the analysis of elementary landscape units: Țaga community case study*, Publicationes Institutii Geographice Universitatis Tartuensis, 92, "Development of European Landscapes", vol. II, Tartu, p. 662-665.
 24. Mac, I., **Drăguț, L.** (2000), *Formațiuni muntoase, puncte de vedere*, Revista de Geomorfologie, 2, București, p. 151-155.
 25. **Drăguț, L.** (2000), *Evaluarea peisajelor geografice din teritoriul administrativ al municipiului Cluj-Napoca*, Studia Universitatis Babeș-Bolyai, Geographia, XLV, 1, p.11-15.
 26. Mac, I., **Drăguț, L.** (1997), *Rolul reliefului în dezvoltarea, amenajarea teritorială și estetica urbană a orașului Deva*, Analele Universității de Vest din Timișoara, seria Geografie, vol. VII, p. 11-24.

27. **Drăguț, L.**, Komlosi, Iuliana, Ianoș, Gh., Cardoso, T., Lăzureanu, A. (1994), *Cercetări privind poluarea atmosferei orașului Timișoara cu pulberi sedimentabile*, Analele Univ. Timișoara, vol. IV, p. 119-124.

Published contributions to academic conferences

1. Dornik, A., Drăguț, L., Chețan, M.A., Oguchi, T., Hayakawa, Y., Micu, M., 2020. Towards a consistent set of land-surface variables for landslide modelling. Proceedings of the Geomorphometry 2020 Conference, Perugia, Italy.
2. Dornik, A., Drăguț, L., Oguchi, T., Hayakawa, Y., Micu, M., 2020. Altitude as an indicator of biased sampling design in landslide prediction. 22nd EGU General Assembly, held online 4-8 May, 2020, id.11304
3. Sîrbu, F., Dragut, L., Oguchi, T., Hayakawa, Y., Micu, M., 2018. Sensitivity of land-surface variables to scale in identifying landslide scarps. Geomorphometry2018, Boulder, Colorado, USA.
4. Peter Bandura, Lucian Drăguț, Tatiana Hrciníková, 2015. [Delineation of basic morphometric-morphostructural individuals of the Western Carpathians using object-based image analysis](#). *Role of fieldwork in geomorphology*, Pilsen; 03/2015.
5. Eisank, C., Drăguț, L. and Blaschke, T., 2011. [Towards semantic interoperability in digital geomorphological mapping](#). *Geophysical Research Abstracts*, Vol. 13, EGU2011-14052.
6. Drăguț, L. and Eisank, C., 2010. [Hierarchical mapping of landforms from Digital Elevation Models \(DEMs\)](#). *Geologica Balcanica*, 39 (1-2), XIX Congress of the Carpathian-Balkan Geological Association, Abstracts Volume, pp. 101-102.
7. Drăguț, L., Tiede, D. and Levick, S., 2010. ESP: a tool to estimate scale parameters for multiresolution image segmentation of remotely sensed data. GEOBIA 2010, 29 June-02 July 2010, Ghent, Belgium, pp. 38.
8. Eisank, C. and Drăguț, L., 2010. [Multi-scale pattern analysis of geographic entities](#). In: Painho, M., Santos, M.Y. and Pundt, H. (Eds.) *Proceedings of AGILE 2010*. Geospatial Thinking. Guimaraes, Portugal.
9. Drăguț, L., Eisank, C. and Strasser, T., 2009. [Cells vs. objects and scale issues in terrain-based environmental modeling](#). *Proceedings ICC2009*, 15-21 November 2009, Santiago, Chile.
10. Drăguț, L., Walz, U. and Blaschke, T., 2009. The third and fourth dimension of landscapes. In: Breuste, J., Kozava, M., Finka, M. (eds.). *European Landscapes in Transformation. Challenges for Landscape Ecology and Management*. Salzburg, Bratislava, 356-357.
11. Eisank, C., Drăguț, L., 2009. Multi-scale analysis of slope gradient using local variance graphs. *GI Forum 2009*, 7-10 July, Salzburg, Austria.
12. Drăguț, L., Blaschke, T., Eisank, C. and Strasser, T., 2009. Scale issues in landscape representation from Digital Elevation Models. The 1st International symposium of geography “*Landscapes: perception, understanding, awareness and action*”, 3-5 April 2009, Bucharest, Romania.
13. Drăguț, L., Eisank, C. and Strasser, T., 2009. Incorporating scale into digital terrain analysis. *Geophysical Research Abstracts*, Vol. 11, EGU2009-5583.

14. **Drăguț, L.**, Blaschke, T., Eisank, C. and Strasser, T., 2008. Scales and hierarchies in landform classification. The SCALA project. Proceedings Mitteleuropäische Geomorphologietagung 2008, Salzburg.
15. Schauppenlehner, T., **Drăguț, L.**, Blaschke, T. and Muhar, A., 2008. Using landform classification to improve the interpolation of soil taxation point data. European Geosciences Union General Assembly 2008, *Geophysical Research Abstracts* 10.
16. **Drăguț, L.** and Blaschke, T., 2008. 3D landscape units for analysis of landscape structure. Methodology of Landscape Research, Sosnowiec-Krynica, Poland, pp. 25.
17. Blaschke, T., Lang, S., Schöpfer, E., Tiede, D. and **Drăguț, L.**, 2007. Landscape change assessment: integration of remote sensing, GIS and spatial modeling concepts. IALE World Congress 2007, *Book of Abstracts*, part II, 819 - 820.
18. Flügel, W.A., Bongartz, K., Janauer, G., **Drăguț, L.**, Zeil, P. and Kienberger, S., 2007. Comparative analysis of climate change impacts in the Yarlung Tsangpo (Upper Brahmaputra) and Upper Danube river basins – the BRAHMATWINN Project. European Geosciences Union General Assembly 2007, *Geophysical Research Abstracts* 9.
19. Muntean, O.L., **Drăguț, L.**, Baci, N. and Dimén, L., 2006. GIS for Environmental and Landscape Assessment (A Case-Study: Târnava Mare River Corridor, Transylvanian Tableland). RevCAD 6, *Aeternitas*, Alba-Iulia, Romania.
20. **Drăguț, L.** and Blaschke, T., 2006. Landform classification using SRTM data and object-based image analysis. *Proceedings TADTM*, Nanjing, China, CD ROM.
21. **Drăguț, L.** and Blaschke, T., 2006. Geomorphometry and object-based image analysis for delineating complex landscape units. *Proceedings Environment&Progress*, Cluj-Napoca, Romania, CD ROM.
22. Muntean, O.L., **Drăguț, L.**, Baci, N. and Mihăiescu, R., 2006. Environmental planning using GIS (a case study: Târnava Mare river corridor, Romania). *Proceedings Environment&Progress*, Cluj-Napoca, Romania, CD ROM.
23. **Drăguț, L.** and Blaschke, T., 2006. CLUE - Complex Landscape Units for Environmental assessment and modelling. 9th International Symposium on High Mountain Remote Sensing Cartography (HMRSC-IX), *Book of Abstracts*, 74 - 75.
24. V. Cristea, **L. Drăguț**, C. Baci and Gafta, D., 2003. A multidisciplinary approach to the sustainable development of the peri-urban area of the city of Cluj-Napoca, *Proceedings ENUPA workshop*, October 23-24, 2003, Gargnano, Italy.
25. Blaschke, T. and **Drăguț, L.**, 2003. Integration of GIS and object-based image analysis to model and visualize landscapes, ISPRS workshop "Challenges in Geospatial Analysis, Integration and Visualization II", September 8- 9, 2003, Stuttgart, Germany, 18-23.
26. Urdea, P., **Drăguț, L.** (2000), *New data concerning the glacial and periglacial landforms in the Șureanu Mountains*, in Abstracts Book "The XVIIIth Symposium of Geomorphology", Sighetu Marmăției, 28-30 September 2000.

27. Surd, V., Vrabet, Mihaela, Zotic, V., Mureșan, Alina, **Drăguț, L.** (1997), *Spațiul și acțiunile violente asupra sa. Cazul teritoriului administrativ al municipiului Cluj-Napoca*, in Abstract Book "Geography within the Context of Contemporary Development, Cluj-Napoca, 6-7 June 1997.
28. **Drăguț, L.** (1996), *Considerații asupra reliefului climatic din Munții Șureanului*, în vol. "Cercetări în spațiul carpato-danubian", Timișoara, p. 99-106.
29. **Drăguț, L.** (1994), *Aspecte ale reliefului carstic din Munții Șureanului*, Noosfera, "Geografia în anul 300 al Universității București", p. 55-56.

INVITED LECTURES

1. **Drăguț, L.**, *Object-oriented geomorphometry*. Keynote lecture, International Conference Geomorphometry 2015, Poznan, Polonia, June 22-26, 2015.
2. **Drăguț, L.**, *Land-surface segmentation: progress and further challenges towards objective geomorphological mapping*. Keynote lecture, IAG/AIG International Workshop on "Objective Geomorphological Representation Models: Breaking through a New Geomorphological Mapping Frontier", Salerno, Italy, October 15-19, 2012.
3. **Drăguț, L.**, *Scale and pattern in quantification of landscape structure*. Keynote lecture, International Conference „Environment – Landscape – European Identity”, Bucharest, Romania, November 4-6, 2011.
4. **Drăguț, L.**, *Digital Elevation Models in Landscape Ecology*. Invited lecture and hands-on sessions, GISLERS Summer School 2011 on "Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning", Salzburg, Austria, July 2011.
5. **Drăguț, L.**, *Digital Elevation Models in Landscape Ecology*. Invited lecture and hands-on sessions, GISLERS Summer School 2010 on "Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning", Salzburg, Austria, July 2010.
6. **Drăguț, L.**, *Is there any secret in writing a successful Marie Curie proposal?* Invited lecture, Training 4: PEOPLE: Marie-Curie-Förderungen im RP7, Salzburg, Austria, October 15, 2009.
7. **Drăguț, L.**, *Digital Elevation Models in Landscape Ecology*. Invited lecture and hands-on sessions, GISLERS Summer School 2009 on "Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning", Salzburg, Austria, July 2009.
8. **Drăguț, L.** and Blaschke, T., *3D landscape units for analysis of landscape structure*. Keynote lecture, IALE Polish Chapter Conference "Methodology of Landscape Research", Krynica, Poland, March 2008.
9. **Drăguț, L.**, *Landscape assessment using GIS*. Invited lecture, the 1st Firtos Summer School, Inlăceni, Romania, August 2007.
10. **Drăguț, L.**, *Classification of Landform Elements Using Object-based Image Analysis*. Public lecture, University of Arkansas, USA, March 2006.
11. **Drăguț, L.**, *Spatial Patterns in Landscape Ecology: From 2D to 3D Approach*. Occasional Lecturer Program (OLP), University of California, Davis, USA, January 2006.
12. **Drăguț, L.**, *Landscape units for deriving landscape indicators*. Invited lecture, JRC-AgriEnv, Ispra, Italy, May 2005.

13. **Drăguț, L.**, *Automated Classification of Landform Elements using Object-based Image Analysis*. Invited lecture, UNIGIS Summer School in Digital Terrain Modeling, Salzburg, Austria, September 2004.

Presentations (partial listing; presenter in **bold**)

1. **Vernica, M.M.**, Hegyi, A., Drăguț, L.D., 2018. Automatic identification and delineation of archaeological magnetic anomalies using object-based image analysis, GEOBIA 2018-From pixels to ecosystems and global sustainability.
2. **Sirbu, F.**, Dragut, L., Oguchi, T., Hayakawa, Y., 2018. The influence of data scaling in modelling landslide scarps, EGU General Assembly Conference Abstracts, pp. 7894.
3. **Drăguț, L.** and Eisank, C., 2010. Hierarchical mapping of landforms from Digital Elevation Models (DEMs). XIX Congress of the Carpathian-Balkan Geological Association, Thessaloniki, Greece, 23-26 September 2010.
4. **Drăguț, L.**, Tiede, D. and Levick, S., 2010. ESP: a tool to estimate scale parameters for multiresolution image segmentation of remotely sensed data. GEOBIA 2010, Ghent, Belgium, 29 June-02 July 2010.
5. **Drăguț, L.** and Eisank, C., 2010. Multi-scale object representation for mapping landforms from Digital Elevation Models (DEMs). 14th Joint Geomorphological Meeting (JGM), Bucharest-Sinaia, Romania, May 2010.
6. **Drăguț, L.**, Eisank, C. and Strasser, T., 2009. Cells vs. objects and scale issues in terrain-based environmental modeling. Poster. International Cartography Conference 2009, Santiago, Chile, November 2009.
7. **Drăguț, L.**, Eisank, C., Strasser, T. and Blaschke, T., 2009. A comparison of methods to incorporate scale in geomorphometry. Geomorphometry2009, Zurich, Switzerland, September 2009.
8. **Eisank, C.** and **Drăguț, L.**, 2009. Multi-scale analysis of slope gradient using local variance graphs. Poster. GI Forum Salzburg, Austria, July, 2009.
9. **Drăguț, L.**, Strasser, T. and Eisank, C., 2009. Incorporating scale into digital terrain analysis. Poster. European Geosciences Union General Assembly 2009, Vienna, Austria, April 2009.
10. **Drăguț, L.**, Blaschke, T., Eisank, C. and Strasser, T., 2009. Scale issues in landscape representation from Digital Elevation Models. The 1st International symposium of geography “Landscapes: perception, understanding, awareness and action”, Bucharest, Romania, April 2009.
11. **Drăguț, L.** and Blaschke, T., *Landform classification in the Hochkalter area, National Park Berchtesgaden, Germany*. GI Forum, Salzburg, Austria, July, 2007.
12. **Drăguț, L.** and Blaschke, T., *Towards integrating terrain information into landscape classification*. Landscape classification: theory and practice, Warsaw, Poland, June 2007.
13. **Drăguț, L.** and Blaschke, T., *Landform classification in the Hochkalter area, National Park Berchtesgaden, Germany*. Poster. International Symposium “Landform – structure, evolution, process control“, Bonn, Germany, June 2007.
14. Flügel, W. A., Bongartz, K., Janauer, G., **Drăguț, L.**, Zeil, P., Kienberger, S., *Comparative analysis of climate change impacts in the Yarlung Tsangpo (Upper Brahmaputra) and Upper Danube river basins – the BRAHMATWINN Project*. European Geosciences Union General Assembly 2007, Vienna, Austria, April 2007.

15. **Drăguț, L.** and Kienberger, S., *Daily Interpolation of Temperature and Precipitation Data for 20 years in Europe and Asia*. Geostatistics course and workshop “Merging GIS and Spatial Statistics”, Naples, Italy, February 2007.
16. **Drăguț, L.**, Klug, H. and Schöpfer, E., *Brahmatwinn-Physical modelling*. Brahmatwinn WP4 Stakeholder Meeting, Salzburg, Austria, December 2006.
17. **Drăguț, L.** and Blaschke, T., *Landform classification using SRTM data and object-based image analysis*. TADTM Conference, Nanjing, China, November 2006.
18. **Drăguț, L.** and Blaschke, T., *Geomorphometry and object-based image analysis for delineating complex landscape units*. Environment&Progress, Cluj-Napoca, Romania, October 2006.
19. **Drăguț, L.** and Blaschke, T., *CLUE - Complex Landscape Units for Environmental assessment and modelling*. Poster. 9th International Symposium on High Mountain Remote Sensing Cartography (HMRSC-IX), Graz, Austria, September 2006.
20. Luscier, J.D, Thompson, W.L, Wilson, J.M, Gorham, B.E. and **Drăguț, L.D.**, *Using digital photographs and object - based image analysis to estimate percent ground cover in vegetation plots*. Poster. 1st International Conference on Object-based Image Analysis, Salzburg, Austria, July 2006.
21. **Drăguț, L.**, Schreiber, E.W., Muntean, O.L. and Man, T., *Landscape Consequences of Demographic Change in the Transylvanian Plain (Romania)*. NATO/CCMS Pilot Study Meeting “Linkages among Landscape Assessment, Quality of Life and Environmental Security”, Lecce, Italy, September 2004.
22. **Drăguț, L.**, *Glimpses of the Romanian Planning System*, Institutul de Științe Aplicate din Nürtingen, aprilie 2004, în cadrul programului ERASMUS.
23. V. Cristea, **L. Drăguț**, C. Baci, D. Gafta, *A multidisciplinary approach to the sustainable development of the peri-urban area of Cluj-Napoca city*, ENUPA workshop, Gargnano (Italia), 23-24 octombrie 2003.
24. **Drăguț, L.**, *Landscape units as basis for landscape delineation and evaluation*, Prezentare în cadrul seminarului de cercetare „Landscape Analysis & Geoinformatics”, Salzburg, 10 ianuarie 2003.
25. Muntean, L., **Drăguț, L.**, Baci, N, *GIS Approaches for Environmental Assessment (A Case Study : Copsa Mica Area, Romania)*, NATO/CCMS workshop, Debe (Polonia), 1-3 septembrie, 2003.
26. Blaschke, T., **Drăguț, L.**, *Integration of GIS and object-based image analysis to model and visualize landscapes*, ISPRS workshop “Challenges in Geospatial Analysis, Integration and Visualization II”, September 8- 9, 2003, Stuttgart, Germany.
27. **Drăguț, L.**, Man, T., *Surse de date (modele digitale de elevatie si imagini satelitare) pentru aplicatii in geografie: achizitie, probleme tehnice si posibile utilizari*, Simpozionul GD, Cluj-Napoca, 11-14 septembrie, 2003.
28. **Drăguț, L.**, *Automated classification of landform elements using object-based image analysis*, Universitatea Liberă din Bruxelles, decembrie 2003, în cadrul programului ERASMUS.
29. **Drăguț, L.**, *Landscape analysis*, Universitatea din Leipzig, mai 2002, în cadrul programului ERASMUS.