

Publication list

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ISI journals

1. **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.
2. 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.
3. 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.
4. 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.
5. d'Oleire-Oltmanns, S., Eisank, C., **Drăguț, L.** and Blaschke, T., 2013. Landform mapping from Aerial Photographs and Digital Elevation Models (DEMs): A comparative study. *IEEE Geoscience and Remote Sensing Letters* 10: 947-951.
6. **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](https://doi.org/10.1016/j.geomorph.2011.12.001).
7. 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](https://doi.org/10.1016/j.jas.2011.11.001).
8. **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](https://doi.org/10.1016/j.geomorph.2011.03.011).
9. **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](https://doi.org/10.1016/j.geomorph.2011.03.003).
10. **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, [doi:10.1080/13658810903174803](https://doi.org/10.1080/13658810903174803).
11. **Drăguț, L.**, Schauppenlehner, 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](https://doi.org/10.1016/j.cageo.2008.10.008).
12. 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.
13. **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](https://doi.org/10.1016/j.geomorph.2006.04.013).

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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).

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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. 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.
5. **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.
6. **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.
7. **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.
8. 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.

9. Buzilă, L., **Drăguț, L.**, Drăgulean, V., Baci, C. (2002): Geomorphology and geomorphologic risk assessment. In: „Municipiul Cluj-Napoca și zona periurbană”, Eds. Cristea, V., Baci, C. and Gafta, D. (Cluj-Napoca: Edit. Accent), 15-25, (in Romanian).

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1. 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.
2. **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.
3. 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.
4. d'Oleire-Oltmanns, S., Eisank, C., **Drăguț, L.**, Schrott, L., Marzolff, 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.
5. 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.
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7. **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](#).
8. Eisank, C., **Drăguț, L.**, Götz, 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. ISPRS Vol. No. XXXVIII-4/C7.
9. 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.
10. **Drăguț, L.**, Eisank, C., Strasser, T. and Blaschke, T., 2009. [A comparison of methods to incorporate scale in geomorphometry](#). *Proceedings of Geomorphometry2009*, 133-139.
11. **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.
12. Muntean, O.L., **Drăguț, L.** and Baci, N., 2005. Minimum Data Sets for Landscape Indicators using GIS (A Case Study: Târnava Mare Corridor, Romania). *EcoSys* 11: 24 - 31.

13. Baci, 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).
14. Baci, 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).
15. Muntean, L., Baci, N. and **Drăguț, L.**, 2003. Environmental Decline Assessment in Copșa Mică Area (Romania). *EcoSys* 10: 98-106.
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17. Schreiber, W., **Drăguț, L.** and Man, T., 2003. Landschaftsentwicklung in der westlichen Siebenbürger Heide (Rumänien). *Würzburger Geographische Manuskripte* 63: 145-152.
18. Urdea, P., **Drăguț, L.** (2002-2003), *Noi date asupra reliefului glaciatic și periglaciatic din Munții Șureanului*, Studii și Cercetări de Geografie, XLIX-L, București, 191-206.
19. **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.
20. **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 Tartuens, 92, "Development of European Landscapes", vol. II, Tartu, p. 662-665.
21. Mac, I., **Drăguț, L.** (2000), *Formațiuni muntoase, puncte de vedere*, Revista de Geomorfologie, 2, București, p. 151-155.
22. **Drăguț, L.** (2000), *Evaluarea peisajelor geografice din teritoriul administrativ al municipiului Cluj-Napoca*, Studia Universitatis Babeș-Bolyai, Geographia, XLV, 1, p.11-15.
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24. **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. Eisank, C., **Drăguț, L.** and Blaschke, T., 2011. [Towards semantic interoperability in digital geomorphological mapping](#). *Geophysical Research Abstracts*, Vol. 13, EGU2011-14052.
2. **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.
3. **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.
4. Verhagen, P. and **Drăguț, L.**, 2010. Discovering the Dutch mountains: an experiment with automated landform classification for purposes of

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 6. **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.
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 8. **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.
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 11. Schuppenlehner, 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.
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 15. 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.
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19. **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.
20. V. Cristea, **L. Drăguț**, C. Baciuc 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.
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22. 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.
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25. **Drăguț, L.** (1994), *Aspecte ale reliefului carstic din Munții Șureanului*, Noosfera, "Geografia în anul 300 al Universității București", p. 55-56.

