


**Curriculum vitae
Europass**

Personal information

Name

Florina Minodora Ardelean

E-mail

florina.ardelean@e-uvt.ro, florina.ardelean@yahoo.com

Nationality

romanian

Birthdate

31.03.1981

Work experience

Interval

October 2015 - present

Job position

Lecturer

Activities and responsibilities

- Courses and practical lab sessions for the Spatial data aquisition methods, Fundamentals of Remote Sensing, Methods and models for analysing remote sensing data, Fundamentals of Physical Geography
- research activities as a member of international and national research projects

Name and address of the institution

West University of Timișoara
 Vasile Pirvan, No. 4, 300223, Timișoara
 Education and Research

Type of activity

Interval

2007 - 2015

Job position

Teaching assisstant

Activities and responsibilities

- practical lab sessions for the Fundamentals of GIS and Remote Sensing, Fundamentals of Physical Geography
- research activities as a member of international and national research projects, maintainence of the website for he Geography Department
- web-site maintenance

Name and address of the institution

West University of Timișoara
 Vasile Pirvan, No. 4, 300223, Timișoara

Type of activity

Education and Research

Education	
Interval	2009 – 2013
Qualifications / diploma	PhD in geography / mark excellent
Thematic / professional competence	Geomorphology, GIS, Remote Sensing / Competence in spatial analysis, DEM analysis and modelling, OBIA, semi-automated classification of landforms, quantitative analysis
Name of the institution that provided the qualification /diploma	West University of Timișoara Chemistry, Biology, Geography / Department of Geography
Interval	2005 – 2007
Qualifications / diploma	Master studies in Territorial planning and sustainable development
Thematic / professional competence	Spatial analysis and modelling, hazard and risk evaluation and modelling, remote sensing data aquisition and analysis, processing and analysis of satellite images
Name of the institution that provided the qualification	West University of Timișoara Chemistry, Biology, Geography / Department of Geography
Interval	2001 – 2005
Qualifications / diploma	Bachelor diploma in geography
Name of the institution that provided education	West University of Timișoara Chemistry, Biology, Geography / Department of Geography
Training	
<ul style="list-style-type: none"> ▪ training courses on applied remote sensing by NASA ARSET and courses on remote sensing by ESA, 2017-2023 ▪ Postdoc scholarship in the frame of the project POSDRU/159/1.5/S/133391, <i>“Doctoral and Post-doctoral programs of excellence for highly qualified human resources training for research in the field of Life sciences, Environment and Earth Science”</i>, 2014-2015 ▪ CEEPUS scholarship in GIS and Remote Sensing at the University of Zagreb, Faculty of Geodesy, May 2010 ▪ CEEPUS scholarship in GIS and Remote Sensing at the University of Salzburg, Faculty of Geodesy, May-June 2009 ▪ Summer school “<i>Bridging GIS, Landscape Ecology and Remote Sensing for Landscape Planning</i>”, Salzburg University, University of Salzburg, Austria, July 2009 ▪ RADAR remote sensing course, ESA, ROSA, DLR, Bucharest, October 2009 ▪ ESRI Virtual Campus courses related to spatial analysis, geoprocessing, modelling (2007-2023) ▪ CEEPUS scholarship in GIS and Remote Sensing, Mendel University of Agriculture and Forestry, Brno, Czech Republic, 2005-2006 	

Research statistics	26 publications H-index 8 on WOS				
Personal skills					
Mother tongue	Romanian				
Other languages	UNDERSTANDING	SPEAKING			
English	Listening	Reading	Spoken interaction	Spoken production	WRITING
German	C1	C1	C1	C1	C1
Spanish	A2	A2	A2	A2	A2
Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages					
Organization, managerial and communication skills	<ul style="list-style-type: none"> ▪ national workshops coordination in the field of GIS ▪ good communication skills gained as an expert in national and international research projects and as a lecturer working with bachelor and master students 				
Digital competence	<ul style="list-style-type: none"> ▪ good competence in spatial analysis and modelling, satellite image processing ▪ software operational skills (ArcGIS, Idrisi, QGIS, SAGA, SNAP, eCognition) ▪ skills in computer graphic (Adobe PhotoShop, CorelDraw) 				
Hobbies	trekking, books, photography, biking				
Driving license	category B (since 2009)				
Annex	List of scientific contributions				

ANNEX – list of scientific contributions

ISI articles

- Sipos, G., Blanka-Végi, V., **Ardelean, F.**, Onaca, A., Ladányi, Z., Rácz, A., Urdea, P., 2022. Human-nature relationship and public perception of environmental hazards along the Maros/Mureş river (Hungary and Romania), *Geographica Pannonica*, 26, 3, 297-307
- Onaca, A., Gachev, E., Ardelean, A., **Ardelean, F.**; Perșoiu, A., Hegyi, A., Small is strong: Post-LIA resilience of Europe's Southernmost glaciers assessed by geophysical methods, 2022, *Catena*, 213, 106143, <https://doi.org/10.1016/j.catena.2022.106143>
- **Ardelean, F.**, Onaca, A., Chețan, M.-A.; Dornik, A., Georgievski, G., Hagemann, S., Timofte, F., Berzescu, O. Assessment of Spatio-Temporal Landscape Changes from VHR Images in Three Different Permafrost Areas in the Western Russian Arctic. *Remote Sens.* 2020, 12, 3999. <https://doi.org/10.3390/rs12233999>
- Chețan, M.-A.; Dornik, A.; **Ardelean, F.**; Georgievski, G.; Hagemann, S.; Romanovsky, V.E.; Onaca, A.; Drozdov, D.S. 35 Years of Vegetation and Lake Dynamics in the Pechora Catchment, Russian European Arctic. *Remote Sens.* 2020, 12, 1863. <https://doi.org/10.3390/rs12111863>
- Onaca A., **Ardelean, F.**, Ardelean, A., Magori, B., Sîrbu, F., Voiculescu, M., Gachev, E., 2020, Assessment of permafrost conditions in the highest mountains of the Balkan Peninsula, *Catena*, 185, <https://doi.org/10.1016/j.catena.2019.104288>.
- Magori, B., Urdea, P., Onaca, A., **Ardelean, F.**, 2020, Distribution and characteristics of rock glaciers in the Balkan Peninsula, *Geografiska Annaler: Series A, Physical Geography*, 102:4, 354-375, DOI: 10.1080/04353676.2020.1809905
- Onaca, A., **Ardelean, F.**, Urdea, P., Magori, B., 2017, Southern Carpathian rock glaciers: Inventory, distribution and environmental controlling factors. *Geomorphology*, 293B, 391-404, doi.org/10.1016/j.geomorph.2016.03.032
- Voiculescu, M., **Ardelean, F.**, Török-Oance, M., Milian, N., 2016, Topographical factors, meteorological variables and human factors in the control of the main snow avalanche events in the Făgăraș Massif (Southern Carpathians - Romanian Carpathians): Case studies, *Geographia Polonica*, 89:1, 47-64, <http://dx.doi.org/10.7163/GPol.0045>
- Onaca, A., Ardelean, A. C., Urdea, P., **Ardelean, F.**, Sîrbu, F. 2015, Detection of mountain permafrost by combining conventional geophysical methods and thermal monitoring in the Retezat Mountains, Romania. *Cold Regions Science and Technology*, 119, 111-123 doi:10.1016/j.coldregions.2015.08.001.
- Onaca, A., Ardelean, A.C., Urdea, P., **Ardelean, F.**, Sărăsan, A., 2016, Genetic typologies of talus deposits derived from GPR measurements in the alpine environment of Făgăraș Mountains. *Carpathian Journal of Earth and Environmental Sciences*, 11, 2, 609-616.
- Chiroiu, P., Ardelean, A., Onaca, A., Voiculescu, M., **Ardelean, F.**, 2016, Assessing the anthropogenic impact on geomorphic processes using tree-rings: a case study in the Făgăraș Mountains (Romanian Carpathians). *Carpathian Journal of Earth and Environmental Sciences*, 11, 1, 27-36.
- **Ardelean, F.**, Drăguț, L., Urdea, P., Török-Oance, M., 2013, Variations in landform definition: a quantitative assessment of differences between five maps of glacial cirques in the Țarcu Mountains (Southern Carpathians, Romania), *Area* 45 (3), 348-357; doi: 10.1111/area.12043
- Török-Oance, M., **Ardelean, F.**, 2012, Object-oriented image analysis for detection of the barren karst areas. Case study: the central sector of the Mehedinți Mountains (Southern Carpathians), *Carpathian Journal of Earth and Environmental Sciences*, 7 (2): 249-254
- Voiculescu, M., **Ardelean, F.**, 2012, Snow avalanche disturbance of high mountain environment. Case study: the Doamnei glacial valley, Făgăraș Massif, Southern Carpathians, Romanian Carpathians, *Carpathian Journal of Earth and Environmental Sciences*, 7 (1): 95-108
- Voiculescu, M., **Ardelean, F.**, Onaca, A., Török-Oance, M., 2011, Analysis of snow avalanche potential in Bâlea glacial area - Făgăraș massif, (Southern Carpathians - Romanian Carpathians), *Zeitschrift für Geomorphologie*, Stuttgart, 55 (3): 291-316, doi:10.1127/0372-8854/2011/0054.

ISI Proceedings

- Hamar, J.B., Salberg, A. B., **Ardelean, F.**, Automated detection and mapping of avalanches in SAR images, 2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 689-692.
- Török-Oance, M., **Ardelean, F.**, Voiculescu, M., Urdea, P., Onaca, A. L., 2011, Object-Based Terrain Classification as Tool for Improving the Quality of the Digital Geomorphological Maps: a Case Study in Retezat - Godeanu Range (Southern Carpathians), *Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium*, Published by DAAAM International, Vienna, Austria, 0865-0866
- Onaca, A., Urdea, P., Török-Oance, M., **Ardelean, F.**, 2011, Electrical resistivity measurements in sensitive periglacial environment from Southern Carpathians (Romania), *Annals of DAAM for 2011 & Proceedings of the 22nd International DAAM Symposium*, 21, 1, Viena, 885-886
- Török-Oance, M., **Ardelean, F.**, Onaca, A. L., Voiculescu, M., Urdea, P., 2010, The Evaluation of Different Types of Digital Elevation Models for Geomorphological Applications in Mountain Areas, *Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium*, 20-23rd October 2010, Zadar, Croatia, ISSN 1726-9679, ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), 1413-1414, Published by DAAAM International Vienna.

Articles in refereed journals

- Voiculescu, M., **Ardelean, F.**, Török-Oance, M., Milian, N., 2016, Topographical factors, meteorological variables and human factors in the control of the main snow avalanche events in the Făgăraș Massif (Southern Carpathians - Romanian Carpathians): Case studies, *Geographica Polonica*, 89:1, 47-64, <http://dx.doi.org/10.7163/GPol.0045>
- **Ardelean, F.**, Török-Oance, M., Voiculescu, M., 2015, Snow avalanche tracks mapping in Bâlea glacial valley (Făgăraș Mountains) using semi-automated detection methods, *Forum geografic*, XIV (2), 95-100.
- Katona, O., Sipos, G., Onaca, A., **Ardelean F.**, 2012, Reconstruction of palaeo-hydrology and fluvial architecture at the Orosháza palaeo-channel of river Maros, Hungary, *Journal of Environmental Geography*, 5 (1-2): 29–38
- **Ardelean, F.**, Török-Oance, M., Urdea, P. and Onaca, A., 2011, Application of object-based image analysis for glacial cirques detection. Case study: the Tarcu Mountains (Southern Carpathians), *Forum geografic*, S.C.G.P.M, 10(1): 20-26, doi:10.5775/fg.2067-4635.2011.007.i
- Voiculescu, M., Onaca, A., Milian, N., **Ardelean, F.**, Török-Oance, M., Stăncescu, M., 2010, Analysis of Snow Avalanche from Mars, 07, 2007 within the Călțun-Negoiu Area, in the Făgăraș Massif (Southern Carpathians), *Analele Universității din Oradea – Seria Geografie*, XX, 1, 22-33
- Török-Oance, M., **Ardelean, F.**, Onaca, A., 2009, The semiautomated identification of the planation surfaces on the basis of the digital terrain model. Case study: The Mehedinți Mountains (Southern Carpathians), *Forum Geografic. Studii și cercetări de geografie și protecția mediului*, 8: 5-13.

Book chapters

- Urdea, P., **Ardelean, F.**, Ardelean, M., Onaca, A., 2023, Chapter 54 - The Romanian Carpathians: glacial landforms from the Younger Dryas, in European Glacial Landscapes. The Last Deglaciation, Editor D. Palacios et al., p. 517-524
- Urdea, P., **Ardelean, F.**, Ardelean, M., Onaca, A., 2023, Chapter 36 - The Romanian Carpathians: glacial landforms during Bølling–Allerød Interstadial (14.6–12.9 ka), in European Glacial Landscapes. The Last Deglaciation, Editor D. Palacios et al., p. 347-353
- Urdea, P., **Ardelean, F.**, Ardelean, M., Onaca, A., 2023, Chapter 19 - The Romanian Carpathians: glacial landforms during deglaciation (18.9–14.6 ka), in European Glacial Landscapes. The Last Deglaciation, Editor D. Palacios et al., p. 165-173
- Urdea, P., **Ardelean, F.**, Ardelean, M., Onaca, A., 2022, Chapter 57 - The Romanian Carpathians: glacial landforms from the Last Glacial Maximum (29–19 ka), in European Glacial Landscapes. Maximum Extent of Glaciations, Editor D. Palacios et al., p. 411-447
- Urdea, P., **Ardelean, F.**, Ardelean, M., Onaca, A., 2022, Chapter 38 - The Romanian Carpathians: glacial landforms prior to the Last Glacial Maximum, in European Glacial Landscapes. Maximum Extent of Glaciations, Editor D. Palacios et al., p. 277-282

- Urdea, P., **Ardelean, F.**, Ardelean, M., Onaca, A., 2022, Chapter 14 – Glacial landscapes of the Romanian Carpathians, in European Glacial Landscapes. Maximum Extent of Glaciations, Editor D. Palacios et al., p. 109-114
- Török-Oance, M., **Ardelean, F.**, Voiculescu, M., Salberg, A.B., Milian, N., Irimescu, A., 2017, *Snow avalanche inventory and hazard assessment in Fagaras Mountains, Southern Carpathians* (chapter 7), in Stăncălie, G. (Ed.), Remote sensing, model and in-situ data fusion for snow-pack parameters and related hazards in a climate change perspective, Ed. Printech, Bucuresti, 147-161.
- Salberg, A.B., **Ardelean, F.**, Török-Oance, 2017, *Avalanche detection in remote sensing images* (chapter 6), in Stăncălie, G. (Ed.), Remote sensing, model and in-situ data fusion for snow-pack parameters and related hazards in a climate change perspective, Ed. Printech, Bucuresti, 135-146.
- Onaca A., Urdea P., Ardelean A.C., Șerban R., **Ardelean F.**, 2017, Present-Day Periglacial Processes in the Alpine Zone. In: Radoane M., Vespremeanu-Stroe A. (eds) Landform Dynamics and Evolution in Romania. Springer Geography. Springer, Cham. https://doi.org/10.1007/978-3-319-32589-7_7.
- Urdea, P., Onaca, A., **Ardelean F.**, Ardelean, M., 2011, New Evidence on the Quaternary Glaciation on the Romanian Carpathians (Chapter 24) în *Developments in Quaternary Science*, vol. 15 (Quaternary Glaciations - Extent and Chronology), ed.: J. Ehlers, P.L. Gibbard, P.D. Hughes, Elsevier, 305-323, doi:10.1016/B978-0-444-53447-7.00024-6;
- Kiss, T., Urdea, P., Sipos, G., Sümeghy, B., Katona, O., Tóth, O., Onaca, A., **Ardelean, F.**, Timofte, F., Ardelean, C., 2012, *The past of the river in Past, Present, Future of the Maros/Mureş River*, Editura Universității de Vest din Timișoara, 33-64 / 167-178
- Sipos, G., Právetz, T., Katona, O., **Ardelean, F.**, Timofte, F., Onaca, A., Kiss, T., Kovács, F., Tobak, Z., 2012, *The ever changing river in Past, Present, Future of the Maros/Mureş River*, Editura Universității de Vest din Timișoara, 65-106 / 179-192

International conferences

- Onaca, A., Popescu, R., Hilbich, C., Etzelmüller, B., Urdea, P., Vespremeanu-Stroe, A., Ardelean, A.C., Sîrbu, F., Vasile, M., **Ardelean, F.**, Filhol, S., Eiken, T., Chiroiu, P., 2023. New insights into permafrost occurrence and characteristics in the Southern Carpathians through geophysical surveying, temperature and surface velocity measurements, 6th European Conference on Permafrost, Puigcerda, 19-23.06.2023
- Styllas, M., Onaca, A., **Ardelean, F.**, Ardelean, A., Persoianu, A., and Pennis, C.: The last bits of glacial ice and permafrost as remains of the late Holocene Mediterranean glaciations. New discoveries from Mount Olympus periglacial zone, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-5728, <https://doi.org/10.5194/egusphere-egu23-5728>, 2023.
- Onaca, A., **Ardelean, F.**, Sîrbu, F., and Berzescu, O., Factors influencing the ground thermal regime of rock glaciers in the marginal periglacial environments of Southern Carpathians, 2022, 10th International Conference on Geomorphology, Coimbra, Portugal, 12–16 Sep 2022, ICG2022-556, <https://doi.org/10.5194/icg2022-556>.
- Onaca, A., **Ardelean, F.**, Urdea, P., Sirbu. F., Berzescu, O., 2021, Permafrost characteristics in the marginal periglacial environments of Southern Carpathians (Romania), Geobalkanica, 2021, Ohrid, North Macedonia, 15-16.06.2021.
- Onaca, A., **Ardelean, F.**, Berzescu, O., Urdea, P., Chiroiu, P., Ardelean., A. Lopătiță, I., 2021, Thermal characteristicsof the periglacial landforms in the Southern Carpathians, 36th Romanian Symposium on Geomorphology: Geomorphology, one step further, 22-26.09.2021, Craiova, Romania
- **Ardelean, F.**, Onaca, A., Dornik, A., Chețan, M., 2020, Assessment of spatio-temporal landscape changes from VHR satellite images in three different permafrost areas from West Siberia, 22nd International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC, Timișoara, 01-04.09.2020; (<https://easychair.org/smarter-program/SYNASC2020/2020-09-02.html>)
- **Ardelean, F.**, Chețan, M., Dornik, A., Onaca, A., Georgievski, G., Drozdov, D., Romanovsky, V., Hagemann, S., Nicolsky, D., and Sein, D., 2020, Recent landscape changes assessed by remotely sensed data in Pechora Region, EGU General Assembly, Online, 4–8 May 2020, EGU2020-17819, <https://doi.org/10.5194/egusphere-egu2020-17819>
- Georgievski, G., Hagemann, S., Sein, D., Drozdov, D., Gravis, A., Romanovsky, V., Nicolsky, D., Onaca, A., **Ardelean, F.**, Chețan, M., and Dornik, A., 2020, Climate extremes relevant for permafrost degradation, EGU General Assembly, Online, 4–8 May 2020, EGU2020-16115, <https://doi.org/10.5194/egusphere-egu2020-16115>

- Sirbu, F., Onaca, A., **Ardelean, F.**, Magori, B., and Urdea, P.: Present state of marginal mountain permafrost in South Eastern Europe, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-20066, <https://doi.org/10.5194/egusphere-egu2020-20066>, 2020
- **Ardelean, F.**, Dornik, A., Chețan, M., Onaca, A., Assessment of recent vegetation changes in permafrost areas from West Siberia using Google Earth Engine, "Geographia Napocensis" Conference, 03-06.10.2019, Cluj-Napoca, Romania.
- Chețan, M., **Ardelean, F.**, Dornik, A., Onaca, A., Berzescu, O., Hegyi, A., 2019, Assessing landscape changes using Google Earth Engine in different permafrost areas from West Siberia, 21st International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC, Timișoara, 4-7.09.2019
- Georgievski, G., Hagemann, S., Sein, D., Nicolsky, D., Romanovsky, D., Onaca, A., Chetan, M., Urdea, P., Drozdov, D., Gravis, A., Study Of the Development of Extreme Events over Permafrost areas - SODEEP, EGU, Viena, Austria, 7-12.04.2019; (<https://meetingorganizer.copernicus.org/EGU2019/EGU2019-15867-2.pdf>)
- Onaca, A., **Ardelean, F.**, Chețan, M., Dornik, A., Hegyi, A., Urdea, P., Quantifying recent landscape changes using multi-temporal satellite images in permafrost areas from Western Siberia, *17th International Symposium on Geo-disaster Reduction*, 19-23.08.2019, Issyk Kul, Kyrgyzstan
- Onaca, A., Ardelean, A., **Ardelean, F.**, Gachev, E., Magori, B., Sîrbu, F., Ice thickness and internal structure of two small glaciers in the Pirin Mountains (Bulgaria) assessed by geophysical investigations, INQUA 2019, Dublin, Ireland, 25-31.07.2019
- Onaca, A., Voiculescu, M., **Ardelean, F.**, Gachev, E., Urdea, P., Magori, B., Sîrbu, F., Thermal and morphological characteristics of rock glaciers in the Rila and Pirin Mountains, Carpatho-Balkan-Dinaric Conference on Geomorphology, Szeged, Hungary, 24-27.06.2019
- Onaca, A., Voiculescu, M., Magori, B., Sîrbu, F., **Ardelean, F.**, Permafrost investigations in the highest mountains of Bulgaria and Romanian Carpathians (Romania), *Geobalcanica, Sofia, Bulgaria*, 13-14.06.2019
- Török-Oance, M., Voiculescu, M., **Ardelean, F.**, Irimescu, A., Milian, N., 2019, Toward a snow avalanche inventory based on satellite images, historical data and field observations in Southern Carpathians, 35th Symposium on Geomorphology, Timișoara, 23-26.05.2019.
- Onaca, A., Voiculescu, M., **Ardelean, F.**, Urdea, P., Gachev, E., Magori, B., Hegyi, A., Sîrbu, F., Băbănaș, M., 2019, Permafrost characteristics in marginal periglacial environment of Rila and Pirin Mountains, 35th Symposium on Geomorphology, Timișoara, 23-26.05.2019.
- Onaca, A., Ardelean, A., Magori, B., Voiculescu, M., **Ardelean, F.**, Gachev, E., Sirbu, F., 2019, Permafrost investigations in the Rila and Pirin Mountains, Bulgaria, EGU, Viena, Austria, 7-12.04.2019.
- **Ardelean, F.**, Török-Oance, M., Irimescu, A., Voiculescu, M., Milian, N., 2018, Snow avalanches and related hazards, based on high-resolution satellite data in Făgăraș Mountains, Făgăraș Mountains – an inventory towards a new national park, București, 10-11.12.2018
- Sîrbu, F., Onaca, A., **Ardelean, F.**, Magori, B., Urdea, P., 2018, The evolution of ground surface temperature of rock glaciers in Retezat Mountains (Romania) in relation with air temperature and snow cover, Central European conference on geomorphology and quaternary science, University of Giessen, Germania, 23-27.09.2018
- Mocioacă, E., **Ardelean, F.**, Török-Oance, M., 2018, Mapping the black pines forest using high resolution satellite images and object-based image analysis. Case study: Domogled massif. 20th International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC, Timișoara, 20-23.09.2018
- Tomuța, R., Onaca, A., **Ardelean, F.**, 2018, Reconstruction of glaciated landscape in the Southern Carpathians using semi-automated, 20th International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC, Timișoara, 20-23.09.2018.
- Sîrbu, F., Onaca, A., **Ardelean, F.**, Magori, B., Urdea, P., 2018, Five years of monitoring rock glaciers ground surface temperature in Southern Carpathians, 2018, Are there any intact rock glaciers in the Balkan Peninsula? 5th European Conference on Permafrost EUCOP5, Chamonix, Franța, 22.06 – 01.07.2018
- Onaca, A., Magori, B., **Ardelean, F.**, Gachev, E., Urdea, P., Voiculescu, M., Sîrbu, F., 2018, Are there any intact rock glaciers in the Balkan Peninsula? 5th European Conference on Permafrost EUCOP5, Chamonix, Franța, 22.06 – 01.07.2018
- Sîrbu, F., **Ardelean, F.**, Onaca, A., 2018, Predicting potential permafrost distribution based on land surface variables and remote sensing data in Southern Carpathians (Romania), 15th International Circumpolar Remote Sensing Symposium, Potsdam, Germania, 10-15.09.2018
- Török-Oance, M., **Ardelean, F.**, Potential of operational Sentinel-2 images for middle and small size snow avalanches detection, *19th International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC*, Timișoara, 21-24.09.2017

- Voiculescu, M., **Ardelean, F.**, Török-Oance, M., New findings related to snow avalanches and related hazard in Southern Carpathians. Case study: Făgăraș Mts., *Romanian Geomorphology Symposium*, 33rd Edition, Iași, 11-14.05.2017
- Salberg, A.B., Hamar, J.B., **Ardelean, F.**, Török-Oance, M., Avalanche detection in very high resolution optical satellite images, *Final Workshop on Remote sensing, model and in-situ data fusion for snowpack parameters and related hazards in a climate change perspective— SnowBall*, 27-28.04.2017, Bucharest, Romania.
- Salberg, A.B., Reksten, J.H., **Ardelean, F.**, Change-detection based mapping of avalanches in Sentinel-1 images, *Final Workshop on Remote sensing, model and in-situ data fusion for snowpack parameters and related hazards in a climate change perspective— SnowBall*, 27-28.04.2017, Bucharest, Romania.
- Török-Oance, M., **Ardelean, F.**, Voiculescu, M., Milian, N., Salberg, A.B., Snow avalanche inventory and hazard assessment in Fagaras Mountains, *Final Workshop on Remote sensing, model and in-situ data fusion for snowpack parameters and related hazards in a climate change perspective— SnowBall*, 27-28.04.2017, Bucharest, Romania.
- **Ardelean, F.**, Török-Oance, M., Salberg, A.B., Voiculescu, M., Milian, N., Irimescu, A., Numerical simulation of documented snow avalanche events in Făgăraș Mountains, *18th International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC*, Timișoara, 24-27.09.2016.
- Török-Oance, M., Irimescu, A., Milian, N., Diamandi, A., **Ardelean, F.**, Voiculescu, M., Snow avalanche hazard assessment in Făgăraș Mountains, Southern Carpathians, *18th International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC*, Timișoara, 24-27.09.2016.
- Salberg, A.B., Hamar, J.B., **Ardelean, F.**, Johansen, T., Kampffmeyer, M., Automatic detection and segmentation of avalanches in remote sensing images using deep convolutional neural networks, *18th International Symposium on Symbolic and Numerical Algorithms for Scientific Computing – SYNASC*, Timișoara, 24-27.09.2016.
- Hamar, J.B., Salberg, A. B., **Ardelean, F.**, Automated detection and mapping of avalanches in SAR images, *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, Beijing, China, 10-15.07.2016.
- Török-Oance, M., **Ardelean, F.**, Voiculescu, M., Milian, N., A First Snow Avalanche Inventory In The Romanian Carpathians Based On Very High-Resolution Satellite Images, *36th EARSEL Symposium: Frontiers in Earth Observation*, Bonn, Germania, 20-24.06.2016
- **Ardelean, F.**, Török-Oance, M., Voiculescu, M., Milian, N., *Snow avalanche inventory based on remote sensing. A case study from Făgăraș Mountains*, Conferința internațională „Perspectives of geographical approach on territorial development: Theories, methods and practices”, 13-14.05.2016, Timișoara
- Voiculescu, Mircea, **Ardelean, Florina**, Chiroiu, Patrick, Onaca, Alexandru, Spatio-temporal reconstruction of snow-avalanche activity using dendrogeomorphologic approach in Capra glacial valley - Făgăraș Mountains (Southern Carpathians), Romanian Carpathians, *Fifth EUGEO Congress on the Geography of Europe*, Budapest, Hungary, 30.08-02.09.2015
- **Ardelean, F.**, Török-Oance, M., Voiculescu, M., *Snow avalanche tracks detection using high resolution DEM and object based terrain analysis in Făgăraș Mountains, Romania*, Conferința internațională GEOBALCANICA, Skopje, Macedonia, 5-7.06.2015
- **Ardelean, F.**, Török-Oance, M., Voiculescu, M., *An alternative solution for avalanche tracks mapping using semi-automated methods. A case study from Făgăraș Mountains*, Conferința internațională „Methodological challenges in geography”, 15-16.05.2015, Timișoara
- Onaca, A., Ardelean, A., Urdea, P., **Ardelean, F.**, Investigations regarding the internal structure of rock glaciers and alpine talus slopes from Southern Carpathians assessed by Ground-Penetrating Radar (GPR) *Conferința internațională EUCOP4, 4th European Conference on Permafrost*, Evora, Portugal, 18–21.06.2014
- **Ardelean, F.**, Drăguț, L., Török-Oance, M., Urdea, P., *Toward an objective mapping of glacial cirques. A case study from Tarcu Mountains, Southern Carpathians*, Conferința internațională „Academic geography of Timișoara at the 55th anniversary”, Timișoara, 16-17.05.2014
- Urdea, P., Onaca, A., **Ardelean, F.**, Puțan, R., Geophysical investigations in the periglacial belt of the central area of Făgăraș Mountains, *Carpatho-Balkan-Dinaric Conference on Geomorphology*, Stara Lesna, Tatranska Lomnica, 24-28.06.2013
- Katona, O., Sipos, G., Onaca, A., **Ardelean, F.**, Reconstruction of palaeo-hydrology and fluvial architecture at the Orosháza palaeo-channel of river Maros River, Hungary, *Carpatho-Balkan-Dinaric Conference on Geomorphology*, Stara Lesna, Tatranska Lomnica, 24-28.06.2013

- Prăvetz, T., Sipos, G., Katona, O., Kiss, T., Urdea, P., **Ardelean, F.**, Onaca, A., Investigation of bed sediment household on the lowland section of River Maros, Romania-Hungary, *Carpatho-Balkan-Dinaric Conference on Geomorphology*, Stara Lesna, Tatranska Lomnica, 24-28.06.2013
- Drăguț, L., Csillik, O., Dornik, A., Zisu, I., **Ardelean, F.**, Fundamental surface elements on digital elevation models, GIS Ostrava, *Surface models for geosciences*, Ostrava, Cehia, 23-25.01. 2012
- **Ardelean, F.**, Török-Oance, M., Drăguț, L., Object-based detection of planation surfaces from Digital Elevation Models. Case study Țarcu Mountains, Southern Carpathians, Romania, *Forum Carpaticum-From data to knowledge, from knowledge to action*, Stara Lesna, Slovacia, 30.05 -02.06. 2012
- Urdea, P., Onaca, A., **Ardelean, F.**, Ardelean, M., Török-Oance M., Aspects of the Thermal Regime on the Periglacial Belt of Southern Carpathians (Romania), TICOP, *Tenth. Intern. Conf. on Permafrost*, Salekhard, 25-29.06.2012
- **Ardelean, F.**, Drăguț, L., Urdea, P., Török-Oance, M., What is a glacial cirque on a map? Preliminary results on differences in mapping glacial cirques, *IAG/AIG International Workshop on "Objective Geomorphological Representation Models: Breaking through a New Geomorphological Mapping Frontier"*, Salerno, Italia, 15-19.10. 2012
- Drăguț, L., Csillik, O., **Ardelean, F.**, Dornik, A., Partitioning a DEM into fundamental surface elements with land-surface segmentation, *IAG/AIG International Workshop on "Objective Geomorphological Representation Models: Breaking through a New Geomorphological Mapping Frontier"*, Salerno, Italia, 15-19.10.2012
- **Ardelean, F.**, Török-Oance, M., Drăguț, L., Object-based detection of planation surfaces from Digital Elevation Models. Case study Țarcu Mountains, Southern Carpathians, Romania, *Forum Carpaticum-From data to knowledge, from knowledge to action*, Stara Lesna, Slovacia, 30.05-02.06.2012
- Drăguț, L., Csillik, O., Dornik, A., Zisu, I., **Ardelean, F.**, Fundamental surface elements on digital elevation models, GIS Ostrava – *Surface models for geosciences*, Ostrava, Cehia, 23-25.01.2012
- Urdea, P., **Ardelean, F.**, Onaca, A., Ardelean, M., Török-Oance, M., Geomorphological and geophysical investigations on earth hummocks and fossil patterned ground of Țarcu Mountains (Romania), *Second Symposium on Mountain and Arid land Permafrost*, Institute of Geography, Mongolian Academy of Science, Ulaanbaatar, Mongolia, 22 – 26.08.2011
- Török-Oance, M., **Ardelean, F.**, Onaca, A., Object-oriented image analysis for Geomorphological mapping of the karst landforms. An exploratory case study: The Mehedinți Mountains (Southern Carpathians, Romania), *Carpatho-Balkan-Dinaric conference of Geomorphology*, Ostravice, Cehia, 17-20.10. 2011
- **Ardelean, F.**, Landforms detection using DEMs and remote sensing imagery. Case study: alpine level of Țarcu Mountains (Southern Carpathians), *The first Romanian-Bulgarian-Hungarian-Serbian Conference, "Geographical Research and Cross-Border Cooperation within the lower Basin of the Danube"*, Craiova, 23–26.09.2010
- Urdea, P., **Ardelean, F.**, Onaca, A., Ardelean, M., Török-Oance, M., Geomorphological mapping of some periglacial landforms from Southern Carpathians, Romania, *EUCOP III, The University Center in Svalbard, Longyearbyen*, 13-17.06. 2010
- Török-Oance, M., Török-Oance, R., Onaca, A., **Ardelean, F.**, Voiculescu, M. Recent changes of the timberline and treeline in the Southern Carpathians (Romania), *Global Change and the World's Mountains*, Perth, Marea Britanie, 26-30.09.2010
- Urdea, P., Onaca, A., **Ardelean, F.**, Ardelean, M., DC rezistivity investigations in glacial deposits of Transylvanian Alps (Romania), *BSG Annual Meeting 2009*, Durham University (UK), 6-10.09.2009.

Research projects

- **The response of climate-sensitive environments to global warming, sea-level rise and increasing extremes: The Carpathians and Danube Delta**, RO-NR UEFISCDI, project coordinator prof.dr. Alfred Vespremeanu-Stroe, University of Bucharest, 2020-2023
- **Rock glacier kinematics in Carpathians**, ESA contract, 2019-2020, 2021-2022
- **Study of the development of extreme events over permafrost areas, ERANET-RUS-PLUS-SODEEP**, project coordinator Stefan Hagemann, Helmholtz-Zentrum Geesthacht, Germany, 2018-2020
- European cooperation project SEE Romania-Norway EEA-JRP-RO-NO-2013-1-0285, **Remote sensing, model and in-situ data fusion for snowpack parameters and related hazards in a climate change perspective**

(SnowBall), project coordinator: dr. Gheorghe Stancalie, National Meteorological Administration, 2014-2017

- HURO Grant, cross-border cooperation project Romania-Hungary, ***Development of complex Geocronological and Geophysical laboratories for saving Archaeological heritage and solving environmental problems (EnviArch)*** HURO/1101/126/2.2.1, project coordinator: dr. Sipos György, University of Szeged, 2011-2014
- HURO Grant, cross-border cooperation project Romania-Hungary, ***Research of past, present and FUTURE Lower MARos / Mures River in relation with climatic change and sustainable management***, FUTUMAR HURO/0901/266/2.2.2, project coordinator: dr. Sipos György, University of Szeged, 2011-2012
- IPA grant, cross-border cooperation project Romania-Serbia, ***Cross-border network for advanced training and research in environmental protection RosNet***, project coordinator: dr. Adriana Isvoran, West University of Timișoara, 2011-2012
- National Research Council project, ***FuSE-DEM Fundamental surface elements on Digital Elevation Models***, project coordinator: dr. Lucian Drăguț, West University of Timișoara, 2011-2012
- CNCSIS National Research Council Grant, ***Methods for digital terrain analysis and automatic classification of the relief in the mountain area based on digital terrain models and remote-sensed data***, project coordinator: dr. Marcel Török-Oance, West University of Timișoara, 2008-2011
- CNCSIS National Research Council Grant, ***Complex method to generate the digital geomorphological map of Romania using GIS/Remote sensing techniques***, GEOMORF, project coordinator: dr.ing. Alexandru Badea, Romania Space Agency, 2008-2011
- Research, developing and consultance contract, ***Development of the Timis County GIS geodatabase for the protected areas, hazard phenomena, historical landscape, potential for tourism activities and natural resources*** 8780/2008, S.C. GEOTOP S.R.L. Odorheiu Secuiesc, project coordinator: dr. Marcel Török-Oance, West University of Timișoara, 2008-2011
- CEEEX, National Research Council Grant, ***The impact of climatic changes upon the Holocene and present dynamics of the alpine environment from the Romanian Carpathians. Implications in the risk management and landscape's management***, project coordinator: dr. Petru Urdea, West University of Timișoara, 2006 – 2008