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Research Topics

Karst Geomorphology and Landscape Evolution

- Structural and tectonic geomorphology of karst terrains
- Relationship between geology and karst systems development
- Evolution of sedimentary basins and carbonate platforms
- Paleoenvironmental reconstruction based on speleothem analysis

Other

- Geomorphological mapping

Research projects

- LIFE13 NAT/RO/00148 Conservation of the 8310 habitat in the Cheile Nerei - Beușnița Natura 2000 site (2016-2019) - staff member (GIS expert).
- IFA-CEA Project C4-08/2014, Climate change teleconnections between Western and Eastern Europe based on speleothem records of the Last Interglacial in France and Romania - FREem (2014-2016) - collaborator.
- CNCSIS Grant (TD) No. 588/2006, Assessment of geomorphic risk in Vâlcea Subcarpathians, focused on phenomena and related processes in the Olănești drainage basin (2007-2008) - project director.
- CNCSIS Grant No. 27/276, Natural risks and implications on human settlements in the Subcarpathians between Topolog and Gilort rivers (2002-2004) - staff member.
- CNCSIS Grant (AT) No. 33618 /code 69, theme 27, Slope vulnerability to landslides in the sub-Carpathian basin of Prahova Valley (2001-2003) - volunteer student.

Publications

BOOKS AND BOOK CHAPTERS:

- Drăgușin V., **Tîrlă L.**, Mirea I., The caves of the Făgăraș Mountains. In: Onac B.P., Ponta G. (Eds), *Caves and Karst Systems of Romania*. Springer (in press).
- **Tîrlă L.**, 2012. *Bazinul hidrografic Olănești – Studiu de geomorfologie*. București, Editura Universității din București, 381 p., ISBN 978-606-16-0172-1.

ARTICLES:

- **Tîrlă L.**, Mirea I., Vijulie I. Geomorphological and structural patterns of the scarp-related steep dry valleys in limestone ridges: A case study from South Carpathians, Romania. *Geomorphologie: relief, processus, environnement* (IF: 0.673) (in press).
- **Tîrlă L.**, Drăgușin V., Mirea I., Cojocaru T., Speleomorphology of M3-R2 – the highest cave in SE Carpathians, *Revista de Geomorfologie* (in press).
- Drăgușin V., Balan S., Blamart D., Forray F.L., Marin C., Mirea I., Nagavciuc V., Perșoiu A., **Tîrlă L.**, Tudorache A., Vlaicu M.- Transfer of environmental signals from surface to the underground at Ascunsă Cave, Romania – under review for *Hydrology and Earth System Sciences* (IF: 3.99).
- Ene M., **Tîrlă L.**, Osaci-Costache G., 2014. Estimation of the Quaternary stream erosion in small drainage basins (Vâlcea sub-Carpathians and Olteț Plateau, Romania). *Forum Geografic 1* (13), 5-11. doi: 10.5775/fg.2067-4635.2014.012.i.
- Manea G., Matei E., **Tîrlă L.**, Vijulie I., Tișcovschi A., Cocoș O., 2014. The Mateiaș limestone quarry (Southern Carpathians): changes in spatial extent and local perception on the related environmental issues. *Forum Geografic 1* (13), 66-76. doi: 10.5775/fg.2067-4635.2014.138.i.
- **Tîrlă L.**, Vijulie I., 2013. Structural-tectonic controls and geomorphology of the karst corridors in alpine limestone ridges: Southern Carpathians, Romania. *Geomorphology 197* (1), 123-136 (IF: 2.813). doi: 10.1016/j.geomorph.2013.05.003.
- **Tîrlă L.**, 2012. Elaboration of climatic maps using GIS. Case study: Olănești drainage basin, Romania. *J. Environ. Biol.* 33 (3), 449-454 (IF: 0.56).
- Ene M., Osaci-Costache G., **Tîrlă L.**, 2009. The caving-ins at Ocnele Mari, Vâlcea sub-Carpathians, Romania. *Geografia Fisica e Dinamica Quaternaria 32*, 67-72 (IF: 0.641).