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## Research Topics

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GIS  
Remote sensing  
Digital mapping  
Spatial Statistics

## Research projects

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1. Territorial Development Plan of Mures County (Romania), 2007-2010, Funded by Mures County Council, € 98.000 (with Dr. Benedek J., Babeş-Bolyai University) <http://www.cjmures.ro/Patj/CUPRINS2012.htm>
2. South East Europe Transnational Cooperation Programme – *Tisa Catchment Area Development* – Proiect SEE AF/A/638/4.2/X – TICAD, 2009-2012, Funded by European Comission (FEDR), € 325.000, (with Dr. Ana Maria Pop, Babeş-Bolyai University – project manager) <http://www.see-ticad.eu/>

3. The development plan of the Intercity Area: Sinaia, Bușteni, Azuga, Predeal, Râșnov, Brașov (Poiana Brasov) Project no. 392/11.05.2009, 2009-2010, Funded by Romanian Ministry of Development (MDRL), € 47.500, (with Dr. Pompei Cocean, Babeș-Bolyai University – project manager)  
[http://www.mdrl.ro/documente/dezvoltare\\_teritoriale/amenajarea\\_teritoriului/patz\\_valea\\_prahovei/patz\\_restructurat.pdf](http://www.mdrl.ro/documente/dezvoltare_teritoriale/amenajarea_teritoriului/patz_valea_prahovei/patz_restructurat.pdf)
4. Territorial Development Plan for Maramures County, Romania, 2007-2008, Funded by Romanian Ministry of Development (MDRL), € 53.000 (with Dr. Pompei Cocean, Babeș-Bolyai University – project manager)  
<http://www.scribd.com/doc/51465665/28/Bibliografie>
5. GeoSpace – Centre of Geomatics dedicated to complementary education of researchers and K-12 Geography teachers in the field of GIS and Remote Sensing, 2010-2013, Funded by EU through POSDRU, € 600.000 (with Dr. Danut Petrea, Babeș-Bolyai University – project manager & all) <http://geospace.geografie.ubbcluj.ro/mod/resource/view.php?id=141>
6. Use of Landscape Sciences for the Assessment of Environmental Security, 2001-2006, Funded by NATO/CCMS, € 42.000 (with Dr. Schreiber, W., E., Babeș-Bolyai University – national project manager, Dr. Felix Muller, Institute for Natural Resource Conservation, Department of Ecosystem Management, Kiel, Germany – project manager)  
<http://www.springer.com/life+sciences/ecology/book/978-1-4020-6588-0>
7. Regional Centre of Topography, Cartography, Remote Sensing and GIS, 1999-2004, Funded by World Bank, € 250.000, (with Dr. V. Buz (now retired), Babeș-Bolyai University and Dr. Al. M. Imbroane, Babeș-Bolyai University)  
[http://www.nipne.ro/docs/bcum/BCUM-rom/Comisia\\_4/Buz\\_ferestre.htm](http://www.nipne.ro/docs/bcum/BCUM-rom/Comisia_4/Buz_ferestre.htm)
8. 3D Urban GIS – A pilot project to evaluate buildings usage in the central part of Cluj-Napoca (Proiect pilot de tip GIS urban, privind modul de utilizare a clădirilor din centrul municipiului Cluj-Napoca), 1999-2001), € 12.000 Funded by CNCISIS (with Dr. Al. M. Imbroane, Babeș-Bolyai University)

## Publications (selection)

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### Cărți

1. Koo Bryan, Anton Simona, Stanculescu Manuela Sofia, Swinkels Robertus Antonius, **Man Titus-Cristian**, Moldovan Sandu Ciprian, (2014), *The Atlas of Urban Marginalized Areas in Romania*, The World Bank, Washington D.C., p. 300
2. Ionescu-Heroiu, M., Neagu Marina, Burduja, S., Sandu, D., Moldovan C., **Man Titus**, Rusu, R., (2013), *Growth Poles - The Next Phase*, 224 p., Ed. World Bank, Washington DC, USA
3. Ionescu-Heroiu, M., Burduja, S., Sandu, D., Cojocaru, Șt., Blankespoor, B., Iorga Elena, Moretti, E., Moldovan, C., **Man Titus**, Rusu, R. Van der Weide, R., (2013), *Competitive Cities. Reshaping the Economic Geography of Romania*, 272 p., Ed. World Bank, Washington DC, USA
4. Irimuș, I., Vescan, I., **Man, Titus** (2005), *Tehnici de cartografiere, monitoring și analiză GIS*, Casa Cărții de Știință (*Title in English: Techniques of Mapping, Monitoring and GIS Analysis*)
5. **Man Titus** (2006). *Informatica aplicata in turism*. Editura Presa Universitară Clujeană.. ISBN: (13)978-973-610-489-3. 100 p. (*Title in English: Geoinformatics for Tourism*)
6. **Man, Titus** (2004), *Inițieri practice în GIS*, Caiet de lucrări practice, UBB (*Title in English: Practical Introduction to GIS*)

7. Schreiber, W., E., Drăguț, L., **Man Titus**. (2003), *Analiza peisajelor geografice din partea de Vest a Câmpiei Transilvaniei*, Editura Presa Universitară Clujeană (*Title in English: The analysis of the geographic landscapes in the Western Part of The Transylvanian Plain*)

### Capitole

1. **Man, T.**, (2008), *GIS Database Analysis*. In Stoica, F., Schreiber W., E. (2008)- (Eds) *Peisaje cultural istorice*. Ed. Argonaut. ISBN: (13)978-973-109-110-5. (*Title in English: Cultural and Historic Landscapes of Transylvania*)
2. **Man, T.**, (2007), *GIS Database Analysis and Interpretation* In Ed. P. Cocean (2007), *Amenajarea teritoriilor periurbane. Studiu de caz: Zona periurbană Bistrița*, Editura Presa Universitară Clujeană, colab., ISBN: (10) 973-610-466-4 (*Title in English: The Peri-urban areas organization. Studycase: The peri-urban area of Bistrița*)
3. **Man, T.**, (2004), *GIS Database Analysis and Interpretation* In Ed P. Cocean (2004), *Plan de Amenajare a Teritoriului Regional*, Editura Presa Universitară Clujeană. (*Title in English: The Territorial Development Plan. North-West Region of Romania*)

### Articole

1. Paulette Laura, Man Titus, Weindorf David, Person Taylor (2015), *Rapid assessment of soil and contaminant variability via portable x-ray fluorescence spectroscopy: Copșa Mică, Romania*, *Geoderma* 243, p. 130–140
2. David C. Weindorf, Somsubhra Chakraborty, Abdalsamad Abdalsatar Ali Aldabaa, Laura Paulette, Giuseppe Corti, Stefania Cocco, Erika Michéli, Dandan Wang, Bin Li, Titus Man, Aakriti Sharma, Taylor Person (2015), *Lithologic discontinuity assessment in soils via portable X-ray fluorescence (PXRF) spectrometry and visible near infrared diffuse reflectance spectroscopy (VisNIR DRS)*, *Soil Science Society of America Journal*, doi:10.2136/sssaj2015.04.0160
3. Weindorf David, Man Titus, Paulette Laura, Person Taylor (2015), *Soil heavy metal contamination in Baia Mare, Romania: An exploratory study*. *International Journal of Bioresource Science* 2 (1), p. 1-5
4. Man Titus, Rusu Raularian, Moldovan Ciprian, Ionescu-Heroiu Marcel, Moldovan Sonia, Hărănguș Iulia (2015), *Spatial impact of the road infrastructure development in Romania. An accessibility approach*. *Romanian review of regional studies* 11 (1), p. 101-112
5. Dezsi Ștefan, Mărgărit Nistor, Man Titus (2015), *The GIS assessment of a winter sports resort location. Case study: Beliș District, Western Carpathians*, *Carpathian Journal of Earth and Environmental Sciences* 10 (1), p. 223-230
6. Aakriti Sharma, Weindorf David, Man Titus, Abdalsamad Abdalsatar Ali Aldabaa, Chakraborty Somsubhra (2014). *Characterizing soils via portable X-ray fluorescence spectrometer: 3. Soil reaction (pH)*, *Geoderma*, Volumes 232–234, p. 141–147
7. Ciprian Corpade, Man Titus, Ana-Maria Corpade, Ciprian Moldovan, (2014), *Changes in landscape structure induced by transportation projects in Cluj-Napoca Periurban Area using GIS*, *Carpathian Journal of Earth and Environmental Sciences*, Vol. 9, No. 4, p. 177-184

8. David C. Weindorf, Laura Paulette, Man Titus, (2013) *In-situ assessment of metal contamination via portable X-ray fluorescence spectroscopy: Zlatna, Romania*, Environmental Pollution, Volume 182, November 2013, Pages 92–100 <http://dx.doi.org/10.1016/j.envpol.2013.07.008>
9. Rusu Raularian, Man Titus, Moldovan Sandu Ciprian, (2013), *The Road Connectivity Index Applied to the Settlements of Banat using GIS*, Romanian Reviews of Regional Studies, p. 117-123
10. Rusu Raularian, Man Titus, Moldovan Sandu Ciprian, (2013), *The GIS-Based Road Distance and Time Connectivity Index of the Settlements within the West Region of Romania*, Studia UBB, Seria Geographia, p. 141-150
11. Weindorf David, Man Titus, Paulette L., (2013), *Soil science applications of field portable x-ray fluorescence spectrometry*, 1st Central Asia Congress on Modern Agricultural Techniques and Plant Nutrition. 1-3 October, Soil-Water Journal 2(2-1), p. 875-884, ISSN: 2146-7072
12. Gavrilă, Ionela Georgiana, Man Titus, Surdeanu, V. (2011), *Geomorphological heritage assessment using GIS analysis for geotourism development in Măcin Mountains, Dobrogea, România*, GeoJournal of Tourism and Geosites, Oradea, p185-197, Year IV, 2011/2, Volume 8, ISSN 2065-0817, e-ISSN 2065-1198
13. Șerban, Eugenia, Dragotă, Carmen Sofia, Man Titus (2010), *Hail, a climatic hazard in the Western Romanian Plain, North of Mureș River*, Studia Universitatis Babeș-Bolyai, Geographia, anul LV, nr.1, Cluj University Press, Cluj-Napoca, ISSN: 1221-079X, p.65-72.
14. Raularian Rusu, Man Titus, Ioan Fodorean, Ciprian Moldovan (2010), *The Analysis of Land Use Based on CORINE Land Cover in the Romanian Part of the Tisa Catchment Area*, Romanian Review of Regional Studies, vol VI, nr. 2/2010, p.47-54
15. Șerban, Eugenia, Man Titus, Chiorean, Cristina (2010), *The analysis of the frequency and the trend of the squall phenomenon in the Western Romanian Plain, North of Mureș River*, Analele Universității din Oradea, Fasc. Protecția Mediului, vol.XV, anul 15, Edit. Univ. din Oradea, Oradea, ISSN: 1583-4301
16. Gavrilă, Ionela Georgiana, Man Titus, Surdeanu, V. (2010), „*Geomorphological heritage assessment using GIS analysis for geotourism development in Măcin Mountains, Dobrogea, România*”, in Proceedings of the International Conference on Geoheritage and Geotourism, (eds.) Maria Luisa Rodriguez, Maria Elisabete Freire, 14-17 octombrie 2010, Lisabona, Portugalia, p.29-30
17. Cacovean Horia, Man Titus, Fodorean Ioan, Moldovan Sandu Ciprian (2009), *Land-Use Management using a soil survey geographic database for the Viisoara-Aiton hills (Transylvanian Plain-Romania)*, pg.444-446, GVO, Ede, The Netherlands
18. Eugenia Serban, Man Titus (2009), *The annual interval of the glazed frost risk in the West Plain to the North of the Mures River*, Studii și cercetări, Complexul Muzeal Bistrița Năsăud, Nr. 14/2009 <http://science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=1582-5167>
19. Baci, N., Schuster, E., Man Titus, Muntean, O., L., Creța, Simona-Claudia, (2008), *Types of geo-facets - types of cultural landscapes in the central part of Transylvania*, In: Infrastructure and ecology of rural areas. Protecting Historical Cultural Landscapes to Strengthen Regional Identities and Local Economies, Ed. Polish Academy of Science, Krakow, p. 179-185, Editor: Jerzy Grusz-czynski

20. Fodorean, I., Man Titus (2007), *Sustainable Management of the Lakes in Transylvania Plain*, în vol. „Rural Space and Local Development”, editori V. Surd, V. Zotic, pag. 257-265, Ed. Presa Universitară Clujeană, Cluj-Napoca.
21. Muntean, O.L., Drăguț, L., Baci, N., Man Titus, Buzilă, L., Ferencik, I., (2007), *Environmental Impact Assessment as a Tool for Environmental Restoration: The Case Study of Copșa Mică Area, Romania*, in “Use of Landscape Sciences for the Assessment of Environmental Security”, Springer Netherlands, ISBN: 978-1-4020-6588-0 (Print) 978-1-4020-6594-1 (Online).

## Conference participation

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1. International workshop within the INTERREG project Cultural Landscapes, 19-20 October 2007, Buchschachen, Austria
2. Man, T., Fodorean, I., Moldovan, C. (2009) *Modelling Landform Elements in GIS*, in the International Symposium "Geography in the Context of Contemporary European Development", with the topic "Territorial Development Strategies", section "Regional Development Policies and Strategies", 4-6 June 2009, Zalău, Romania
3. Cacovean, H., Man, T., Fodorean, I., Moldovan, C. (2009), *Land-Use Management using a soil survey geographic database for the Viisoara-Aiton hills (Transylvanian Plain-Romania)*, GVO, Ede, The Netherlands
4. International TICAD Workshop "*GIS-based spatial decision-making supporting system (SDSS)*", 24-25 March 2011, Szeged, Hungary
5. International Workshop "*Second Prototype Model of the TICAD SDSS's operations through practices*", 27-30 April 2011, Tokaj, Hungary
6. International Conference of the International Association of Public Transport: *Urban Governance: Getting people on board! Inovative governance and demand management to achieve sustainable mobility in your city*, 5 – 7 October 2011, Gothenburg, Sweden
7. International Workshop *Applying the SDSS tool final prototype in practice*, 10-12 October 2011, Budapest, Hungary
8. International Workshop – *Policy Recommendations and TICAD SDSS Tool – final version*, 3-4 November 2011, Levoca, Slovakia
9. Moldovan, C., Man, T., Rusu, R. (2014) *Transport Peripherality in Iara-Hășdate Basin, Cluj County, Romania*, in the 6<sup>th</sup> International Conference Rural Space and Local Development – Peripheral Rural Areas between Certain Existence and Uncertain Development, 23-27 July 2014, Cluj-Napoca, Romania
10. Rusu, R., Man, T., Moldovan, C. (2014) *The impact of motorway building on the accessibility to marginal areas in the West Region of Romania*, International Geographical Union Regional Conference: Changes, Challenges, Responsibility, 18-22 August 2014, Krakow, Poland
11. Man, T., Rusu, R., Moldovan, C., Moldovan, Sonia, Hărănguș, Iulia (2014) *Road Network Structure and Transport Peripherality: Cluj Metropolitan Area*, the 6<sup>th</sup> International Conference: Regional disparities and regional development – from scientific research to policy recommendations, 18-19<sup>th</sup> of October 2014, Cluj-Napoca, Romania

12. Man, T., Rusu, R., Moldovan, C., Moldovan, Nona-Sonia, Hărănguș, Iulia (2015) *Spatial Impact of the Road Infrastructure Development. An Accessibility Approach – Romania*, Regional Studies Association Annual Conference 2015, 24-27<sup>th</sup> of May 2015, Piacenza, Italy
13. Petrovici, N., Man, T., Moldovan, C., Rusu, R. (2015) “*Relocation of economic activity in Cluj County: The Making of a Service City Hinterlands*”, the 5<sup>th</sup> EUGEO Congress on the Geography of Europe: Convergences and Divergences of Geography in Europe, 30<sup>th</sup> of August – 2<sup>nd</sup> of September 2015, Budapest, Hungary
14. Hărănguș, Iulia, Man, T., Benedek, J., Rusu, R., Moldovan, C. (2016) *Dezvoltarea zonei rezidențiale Mănăștur Sud și cererea de transport*, Conferința Națională Anuală a Societății de Geografie din România, 16-20 iunie 2016, Cluj-Napoca, România
15. Rusu, R., Hărănguș, Iulia, Man, T., Moldovan, C., Ionescu-Heroiu, M., Dezsi, Ș., Matei, Liliana (2016) *Marginal Areas in Romania: A Study on the Accessibility to High School Educational Infrastructure*, The 33<sup>rd</sup> International Geographical Congress, Shaping our Harmonious Worlds, 21-25<sup>th</sup> of August 2016, Beijing, China

## Professional affiliations

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Regional Studies Association  
Cartography and Geographic Information Society  
Royal Geographical Society