

## PERSONAL INFORMATION

Mihai-Daniel Niță



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## WORK EXPERIENCE

01/03/2019 – Present

**Professor habil.**

Transilvania University of Brasov, Brasov (Romania)

High Education Teaching and Research in Hydrology, Watershed Management, Hydrotechnical Constructions, Remote Sensing and GIS and PhD supervisor in Forestry

01/03/2017 - Present

**Member in advisory board**

SC FOREST DESIGN SRL, Brasov (Romania)

01/10/2014–01/03/2019

**Associate Professor**

Transilvania University of Brasov, Brasov (Romania)

High Education Teaching and Research in Hydrology, Applied Geomatics in Watershed Management, Hydrotechnical Constructions

01/10/2016–01/03/2017

**Fulbright Visiting Professor**

University of Wisconsin-Madison, (USA)

Research in Remote Sensing in Forestry

01/10/2008–01/03/2017

**Head of GIS Department**

SC FOREST DESIGN SRL, Brasov (Romania)

Coordinating GIS projects, designing webGIS and Geoportals, coordinating research and development projects

01/06/2015–Present

**Editorial Board Member**

Bucovina Forestiera, (Romania)

Review articles submitted to Bucovina Forestiera (ISSN 1582-3725)

01/07/2014–01/04/2015

**Member of Technical-Economical Commission from Waters and Forests Department**

Ministry of Environment and Climate Change, Bucharest (Romania)

Member of Technical-Economical Commission from Waters and Forests Department, acting as an advisory body in matters of promotion, implementation, financing and monitoring of investment in forest and water domain.

01/10/2012–01/10/2014

**Assistant Professor**

Transilvania University of Brasov, Brasov (Romania)

Leading practicum at Torrential Watershed management discipline

Leading practicum and project at Torrent Control Discipline



## EDUCATION AND TRAINING

- 01/10/2008–01/10/2011 PhD Diploma in Agricultural and Forestry Sciences, Silviculture  
Branch, Torrential watershed management Domain  
Transilvania University of Brasov, Brasov (Romania)
- 19/09/2007–21/09/2007 Environmental Governance in Eastern Europe  
Jesus College, Oxford (United Kingdom)
- 01/10/2003–01/06/2008 Forest Engineer  
Faculty of Silviculture and Forest Engineering, Brasov (Romania)

## PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	A2	A2	A1	A1	A1
Russian	A1	A1	A1	A1	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

- Communication skills
- Good communication skills gained through my experience as Head of GIS Department
  - Excellent contact skills with students through my experience as Associate Professor

- Organisational / managerial skills
- Leadership - currently responsible for a team of 8 people
  - Good organisational skills gained as part of organizing committee for International Symposium "Forest and Sustainable Development" in 2008, 2010, 2012, 2014

Job-related skills Skills in GIS, Remote Sensing, Spatial Analysis, Research in Geomatics, Environmental Science, Cartography, Data Analysis, Spatial Databases

- Digital competence
- Very Good command of Geoprocessing tools and GIS software (ArcGIS, SagaGIS, QGIS)
  - Very Good command of Remote Sensing software (ENVI, SCP, Orfeo Toolbox, GrassGIS)
  - Very good command of office suite (word processor, spreadsheet, presentation software)



## ADDITIONAL INFORMATION

### Projects and awards

- 2018 – 2020: **Project Manager:** Academic support services for Rectify and Mosaic 700 Corona Satellite images. University of Wisconsin – Madison
- 2015 – 2016: **Researcher** in "COREHABS - Ecological corridors for species and habitats in Romania" EEA Grants
- 2014 – 2016: **Project manager** in "Ecological solutions for managing torrential valleys from ROSCI0207 Postăvaru, ROSCI0195 Piatra Mare și ROSCI0038 Ciucaș protected sites" – Funds covered by UEFISCDI
- 2014 - 2015: **Researcher:** MSc Degree on Management of Sustainable and Ecological Tourism (MEST) Funds covered by Erasmus Plus
- 2014 - **Consultant** for conducting an analytical study on Forest Ecosystem Services (FES) in Moldova Funds covered by ENPI FLEG
- 2013 - 2016: **Researcher:** European Islands Continue education on Resources Efficiency Virtual Gateway (VIREG) Funds covered by ERASMUS Plus
- 2013: **Researcher:** Managing and conserving forests for multiple values - Funds covered by UE
- 2012 - 2014: **Researcher:** in "Services for the development of scientific studies, inventories, maps (including GIS mapping) in ROSCI0395 sites" - Funds covered by **Sectorial Operational Programme – Environment**
- 2012 – 2014: **Researcher** in Fundamentals and solutions for design and monitoring the torrent control works from predominantly forested watersheds – National Forest Administration
- 2012 – 2014: **Forestry expert** in Sustainable networks for the energetic use of lignocellulosic biomass in South East Europe (FOROPA) – Funds covered by The South East Europe Transnational Cooperation Programme
- 2012 - 2014: **Researcher:** MSc Modules Programme in Environmental Security and Management-SEMP Funds covered by Erasmus Plus
- 2012 - 2015: **Researcher:** Green Technology European Virtual Gateway-VITEG - Funds covered by ERASMUS Plus
- 2012: **Researcher:** Estimating the available beech, Norway spruce and silver fir wood to be harvested in east Romania Funds covered by Prinzhorn Holding GmbH
- 2012: **Researcher:** in "Developing a GIS database required for management plans for 10 Natura 2000 sites" - Funds covered by **Sectorial Operational Programme - Environment**
- 2012: **Project Manager** in "GIS database of the forest areas managed by the RPL Padurile Fagarasului R.A. Forest Management Unit" - Funds covered by **WWF (World Wide Fund)**
- 2010 - 2011: **Researcher:** in "Creating GIS spatial database for Vrancea, Covasna and Harghita" - Funds covered by **LIFE 08 NAT/RO/500**
- 2010 - 2013: **Researcher:** in "Services for the development of scientific studies, inventories, maps (including GIS mapping) in Defileul Jiului National Park" - Funds covered by **Sectorial Operational Programme – Environment**
- 2012 – **Researcher:** "Improving the Financial Sustainability of the Carpathian System of Protected Areas" – Watershed protection in AP (soil stabilization, erosion control, water level fluctuation) and Disaster Risk Reduction value in AP - UNDP
- 2009 – **Project Manager** in Hydrological mapping of the vegetation in order to establish the flood risk zones in predominantly forested watersheds – Fund covered by "8 band challenge"- Digital Globe
- 2008 - 2012: **Researcher:** in "Development of new products derived from satellite data adapted to users in the management of hydro-meteorological risk situations. (RISCASAT)" - Funds covered by **Executive Unit for Financing Higher Education, Research, Development and Innovation**
- 2008 – 2011: **Researcher:** " New research on the behavior of the river network torrent control works in the upper basin of Tarlung (ID740)" - CNCSIS





## Publications

- Catalina Munteanu, Johannes Kamp, **Mihai Daniel Nita**, Nadja Klein, Benjamin M. Kraemer, Daniel Müller, Alyona Koshkina, Alexander V. Prishchepov and Tobias Kuemmerle 2020 Cold War spy satellite images reveal long-term declines of a philopatric keystone species in response to cropland expansion. *Proc. R. Soc. B*. 28720192897. <http://doi.org/10.1098/rspb.2019.2897>. 5 year IF: 5.38
- Tudose, Nicu Constantin; Ungurean, Cezar; Davidescu, Șerban; Clinciu, Ioan; Marin, Mirabela; **Niță, Mihai Daniel**; Adorjani, Andrei; Davidescu, Adriana (2020): Torrential flood risk assessment and environmentally friendly solutions for small catchments located in the Romania Natura 2000 sites Ciucas, Postavaru and Piatra Mare, *Science of The Total Environment*, Volume 698, 1. 5 year IF: 5.7
- Popa, Bogdan; **Niță, Mihai Daniel**; Hălălișan, Aureliu Florin (2019): Intentions to engage in forest law enforcement in Romania: An application of the theory of planned behavior, *Forest Policy and Economics*, 100, 33-43, 2019, Elsevier. 5 year IF: 3.2
- Manakos, Ioannis; Tomaszewska, Monika; Gkinis, Ioannis; Brovkina, Olga; Filchev, Lachezar; Genc, Levent; Gitas, Ioannis; Halabuk, Andrej; Inalpulat, Melis; Irimescu, Anisoara, **Niță, Mihai Daniel et. al** (2018): Comparison of Global and Continental Land Cover Products for Selected Study Areas in South Central and Eastern European Region, *Remote Sensing*, 10, 12, 1967, Multidisciplinary Digital Publishing Institute. IF: 4.2
- **Niță M.D.**, Munteanu C, Gutman, G., Abrudan I V., Radeloff VC (2018) - Widespread forest cutting in the aftermath of World War II captured by broad-scale historical Corona spy satellite photography, *REMOTE SENSING OF ENVIRONMENT*, Volume 204, p. 322-332. 5 year IF: 7.7
- Stancioiu, P.T.; **Niță M.D.**; Lazar, Gabriel Ervin (2018) - Forestland connectivity in Romania- Implications for policy and management. *LAND USE POLICY*. Volume: 76 p. 487-499. 5 year IF: 3,66
- Dinca L, **Niță M.D.**, Hofgaard A, Alados CL, Broll G, Borz SA, Wertz B, Monteiro AT (2017) - Forests dynamics in the montane-alpine boundary: a comparative study in protected European mountains using satellite imagery and climate data. *Climate Research*. DOI information: 10.3354/cr01452. 5 year IF: 2.93
- Popa, B., Borz, S. A., **Niță M.D.**, Ioras, F., Iordache, E., Borlea, F., ... Abrudan, I. V. (2016). Forest Ecosystem Services Valuation in Different Management Scenarios : a Case Study of the Maramures Mountains, *Baltic Forestry*, 22(2), 327–340. 5 year IF: 0.563
- **Niță M.D.**, Clinciu I., Popa B. (2016) - Evaluation of stream bed dynamics from Vidas torrential valley using terrestrial measurements and GIS techniques. *ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL*. Vol.15, No. 6, 1387-1395. 5 year IF: 0.795
- Munteanu C, **Niță M.D.**, Abrudan I V., Radeloff VC (2016) - Historical forest management in Romania is imposing strong legacies on contemporary forests and their management. *Forest Ecology and Management*, pp. 179-193. DOI information: 10.1016/j.foreco.2015.11.023. 5 year IF: 3.23
- Popa B., Coman C., Borz S., **Niță M.D.** et al. (2013) - Total Economic Value of Natural Capital – A Case Study of Piatra Craiului National Park. *Notulae Botanicae*, Vol. 41, No.2. 5 year IF: 0.72
- Iordache, E., **Niță M.D.**, Clinciu, I. (2012). Planning forest accessibility with a low ecological impact | Planiranje otvaranja šuma na osnovi okolišne pogodnosti. *Croatian Journal of Forest Engineering*, 33(1), 143–148. 5 year IF: 0.909
- **Niță M.D.**, Clinciu I., Tudose, N.C. (2011): "Estimating and mapping torrentiality risk in small forested watersheds". *Bulletin of the Transilvania University of Brasov*, vol. 4 (53)- 2011 - series II Forestry - Wood Industry - Agricultural Food Engineering
- **Niță M.D.**, Clinciu, I. (2010): "Research on soil moisture spatial distribution in small forested watersheds". *Proceedings of the Symposium "Forest and Sustainable Development"*. ISSN 1843-505X
- **Niță M.D.**, Clinciu I., (2010): "Hydrological mapping of the vegetation using remote sensing products". *Bulletin of the Transilvania University of Brasov*, vol. 3 (52)- 2010 - series II Forestry - Wood Industry - Agricultural Food Engineering, ISSN 2065-2135 (print), ISSN 2065-2143 (CD-ROM).

Additional information: <https://scholar.google.ro/citations?user=hBkhiNMAAAA&hl=ro>

#### Books and chapters

- 2019 - Corectarea Torentilor (Torrent Control). Editura Universitatii Transilvania
- 2015 - "Forest management and the impact on water resources: a review of 12 nations". UNESCO. ISBN 978-92-3-100216-8
- 2014 - Behaviour and effects of the torrential hydrographical management structures in a mountain watershed, Publishing House: Editura Universitatii Transilvania
- 2013 - Watershed management located in the mountain protected areas, Publishing House: Lux Libris, ISBN 978-973-131-236-1
- 2011 - Research on the designing the river system dams in the upper basin of Tarlung (upstream Săcele Lake), Publishing House: Editura Universitatii Transilvania ISBN:978-973-598-989-7

#### Memberships

- **SouthCentral European Regional International Network (SCERIN)** - SCERIN is one of the regional networks of the GOF-C-GOLD panel. GOF-C-GOLD (Global Observation of Forest and Land Cover Dynamics) is a panel of GTOS. GTOS (Global Terrestrial Observing System) is a programme for observations, modelling, and analysis of terrestrial ecosystems to support sustainable development. Global Observation for Forest and Land Cover Dynamics (GOF-C-GOLD) is a coordinated international program working to provide ongoing space-based and in situ observations of the land surface to support sustainable management of terrestrial resources at different scales.
- **Romanian National Society of Soil Science (member since 2015)** - SNRSS encourage scientific research in all fields of soil science and promoting the practical application of its results
- **geo-spatial.org (member since 2008)** - geo-spatial.org explores the concepts, techniques and tools specific to geospatial community. Promotes usage of free and open source software solutions. The goal is to facilitate the access to geographic data and map in a way to become an universal tool of communication and registration of relations between social components (scientific, political, cultural, religious, economic) and their geospatial dimension.

#### Workshops, seminars and consultations

- Speaker: Fusing EO data for forest and land cover dynamics. From historical satellite images to 3D technologies. SKOLTECH Space Center Seminar, Moscow, Russia, 2019
- Trainer: Advanced classification methods with focus on Random Forest Classifier. Trans-Atlantic Training – Novi Sad 2019. Radar and Optical Remote Sensing in the Agricultural and Environmental Monitoring
- Trainer: Remote Sensing using Google Earth Engine. South Asia Regional Information Network (SARIN), 2018, Vientiane, Laos
- Trainer: Landsat time series in the forestry research Trans-Atlantic Training Integration of Radar and Optical Remote Sensing in Studying Land Cover/Land Use Change Zagreb, Croatia 7-11 June 2018
- Trainer: Remote Sensing using Google Earth Engine. South Asia Regional Information Network (SARIN), 2018, Bangkok, Thailand
- Erasmus Plus Visiting Scholar – "Using Computer Vision in monitoring torrent control dams", 19-23 October 2015 – Madrid
- Trainer in "Applied geomatics in forestry" for Institute of Forest Research Chisinau, May 2015 -Moldova
- Organizer in "Sustainable networks for the energetic use of lignocellulosic biomass in South East Europe" 19 December 2014, Brasov
- Trainer in Seminar "Free and open source solutions for geospatial data processing and
- Trainer in seminar "GIS database application using the following software: Quantum GIS, PostgreSQL, PostGIS and PgAdmin as part of project for integrated management of Natura 2000 site Munții Făgăraș și Piemontul Făgăraș", September 2014
- Trainer in Seminar "Free and open source solutions for geospatial data processing and representation", 2012, 2013, 2014, 2015 – Timișoara, Cluj Napoca
- Trainer in "Using 8 band multispectral satellite images" 1 – 6 September 2011, Lunca Muresului Natural Parc, Arad
- Torrential Watershed Management – Romanian Experience Workshop - May 2009, Escuela Technica Superior de Montes, Madrid
- Environmental Governance in Eastern Europe Workshop 19-21 September 2007, Jesus College, Oxford

