

## PERSONAL INFORMATION

## Iosif Vorovencii



📍 Braşov, Valea Cetăţii Street, No. 3 (Romania)

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## POSITION

Vice-Dean – Faculty of Silviculture and Forest Engineering

PhD supervisor affiliated to the Doctoral School of the Transilvania University of Braşov – field of research – Forestry

## WORK EXPERIENCE

1994 - present

**Professor PhD**

Transilvania University of Braşov, Eroilor Street, no. 29, Braşov, [www.unitbv.ro](http://www.unitbv.ro)

Teaching and research in the Department of Forest Management and Engineering - Faculty of Silviculture and Forest Engineering

Teaching and research in sciences of terrestrial measurements

(Teaching: Topography, Photogrammetry, Remote Sensing, Specialised Cadaster)

(Research: assessing and monitoring the environment using remote sensing, processing and interpretation of satellite images in forestry, monitoring forest fires using remote sensing)

1992-1994

**Design engineer**

National Institute for Research and Development in Forestry “Marin Drăcea”, Cloşca Street, no. 13, Braşov

Design activities in watershed planning

1991 - 1992

**Production engineer**

Forestry Department Braşov, Cloşca Street nr. 31, Braşov

Production activities

## EDUCATION AND TRAINING

2010 - 2012

**Masters in cadastral and land management information systems**

Faculty of Sciences - “1 Decembrie 1918” University, Alba Iulia

Remote Sensing, Cadastre, Photogrammetry

2006 - 2010

**Geodesy engineer**

Faculty of Sciences - “1 Decembrie 1918” University, Alba Iulia

Remote Sensing, Photogrammetry, Topography, Cadastre, Geodesy, Global Positioning Systems

1995 - 2005

**Forestry PhD**

Transilvania University of Braşov

Remote Sensing, Photogrammetry, Topography, Cadastre

1991 - 1997

**Economist**

Faculty of Economics – Transilvania University of Braşov

Marketing, management, trade economy, world trade economy, study of consumer behavior

1985 - 1991

**Forestry engineer**

Faculty of Silviculture and Forest Engineering – Transilvania University of Braşov

Silviculture, Dendrology, Dendrometry, Topography, Forest Photogrammetry, Forest Roads, Forest Planning, Operational researches

PERSONAL SKILLS

Mother tongue(s) romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English language	B2	B2	B2	B2	B2
	Replace with name of language certificate. Enter level if known.				
French language	B2	B2	B2	B2	B2
	Replace with name of language certificate. Enter level if known.				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills ▪ good communication skills gained through my experience as professor

Organisational / managerial skills ▪ project management (currently responsible for two projects)

Computer skills ▪ Word, Excel gained through writing the papers, books, reports etc.  
▪ Erdas, Idrisi, Grass, ENVI, LPS, AutoCad, Google Earth Engine, QGIS gained through my experience as professor of remote sensing, photogrammetry, topography, cadastre

ADDITIONAL INFORMATION

## Publications

Papers published in ISI journals (selection):

1. **Vorovencii, I.**, 2021 - Changes detected in the extent of surface mining and reclamation using multitemporal Landsat imagery: a case study of Jiu Valley, Romania. *Environmental Monitoring and Assessment*. Vol. 193, No. 1, Article number 30.
2. **Vorovencii, I.**, 2018 - Quantification of forest fragmentation in pre and post-establishment periods, inside and around Apuseni Natural Park, Romania. *Environmental Monitoring and Assessment*. Vol. 190, No. 6, Article 367.
3. **Vorovencii, I.**, 2017 - Applying the change vector analysis technique to assess the desertification risk in the south-west of Romania in the period 1984–2011. *Environmental Monitoring and Assessment*. Vol. 189, No. 10, Article 524.
4. **Vorovencii, I.**, 2017 - Analysis of the changes in the metropolitan area of Brasov, Romania, using Landsat multitemporal satellite images. *Environmental Engineering and Management Journal*. Vol. 16, No. 2, p. 303–316.
5. **Vorovencii, I.**, 2016 - Assessing and monitoring the risk of land degradation in Baragan Plain, Romania, using spectral mixture analysis and Landsat imagery. *Environmental Monitoring and Assessment*. Vol. 188, No. 7, Article 439.
6. **Vorovencii, I.**, 2015 - Quantifying landscape pattern and assessing the land cover changes in Piatra Craiului National Park and Bucegi National Park, Romania, using satellite imagery and landscape metrics. *Environmental Monitoring and Assessment*. Vol. 187, No. 11, Article 692.
7. **Vorovencii, I.**, 2015 - Assessing and monitoring the risk of desertification in Dobrogea, Romania, using Landsat data and decision tree classifier. *Environmental Monitoring and Assessment*. Vol. 187, No. 4, Article 204.
8. **Vorovencii, I.**, 2014 - A multi-temporal Landsat data analysis of land use and land cover changes on the land surface temperature. *International Journal of Environment and Pollution*. Vol. 56, Nos. 1/2/3/4, p. 109–128.
9. **Vorovencii, I.**, 2014 - A change vector analysis technique for monitoring land cover changes in Copsa Mica, Romania, in the period 1985-2011. *Environmental Monitoring and Assessment*. Vol. 186, No. 9, p. 5951–5968.
10. **Vorovencii, I.**, 2014 - Assessment of some remote sensing techniques used to detect land use/land cover changes in south-east Transilvania, Romania. *Environmental Monitoring and Assessment*. Vol. 186, No. 5, p. 2685–2699.
11. **Vorovencii, I.**, 2014 - Detection of environmental changes due to windthrows using Landsat 7 ETM+ satellite images. *Environmental Engineering and Management Journal*. Vol. 13, No. 3, p. 565–576.
12. Ienciu, I., **Vorovencii, I.**, Oprea, L., Popescu, C., 2013 - The urban development of mountain areas with the aim of developing local tourism. *Journal of Environmental Protection and Ecology*, Vol. 14, No. 3, p. 980–985 (FI = 0,338) (SRI = 0,033).
13. **Vorovencii, I.**, 2011 - The assessment of the impact on the environment of the limestone quarries using satellite images. *Environmental Engineering and Management Journal*, Vol. 10, No. 10, p. 1511–1522.

## Books

1. **Vorovencii, I.**, 2015 – *Remote Sensing*. Publishing House: Matrix Rom București. ISBN 978-606-25-0142-6. 600 pages.
2. Chițea, Gh., **Vorovencii, I.**, Chițea, C.Gh., 2015 – *Topo-geodesic Networks*. Publishing House: Lux Libris Brașov. ISBN 978-973-131-320-7. 524 pages .
3. Chițea, Gh., **Vorovencii, I.**, Mihăilă, M., Chițea, C.Gh., 2011 – *Topography. Methods of surveying*. Publishing House: Lux Libris Brașov. ISBN 978-973-131-108-1. 346 pages.
4. Chițea, Gh., **Vorovencii, I.**, Mihăilă, M., Chițea, C.Gh., 2011 – *Surveying Instruments*. Publishing House: Lux Libris Brașov. ISBN 978-973-131-096-1. 274 pages .
5. **Vorovencii, I.**, 2010 – *Photogrammetry*. Publishing House: Matrix Rom București. ISBN 978-973-755-580-9. 530 pages .
6. **Vorovencii, I.**, Pădure, I., 2010 – *Specialised cadastre*. Publishing House: Editura Universității Transilvania din Brașov. ISBN 978-973-598-677-3. 237 pages .
7. **Vorovencii, I.**, 2006 – *Topography*. Publishing House: Editura Universității Transilvania din Brașov. ISBN 973-635-616-7. 364 pages .
8. Chițea, Gh., Kiss, A., **Vorovencii, I.**, 2003 – *Photogrammetry and Remote Sensing*. Publishing House: Editura Universității Transilvania din Brașov. ISBN 973-635-157-2. 251 pages.
9. Kiss, A., Chițea, Gh., **Vorovencii, I.**, 2001 – *Topography*. Publishing House: Editura Universității Transilvania din Brașov. ISBN 973-8124-61-1. 175 pages.
10. Chițea, Gh., **Vorovencii, I.**, 2000 - *Engineering Surveying*. Publishing House: Editura Universității Transilvania din Brașov. ISBN 973-9474-58-6. 225 pages.

- Projects**
1. MSc Technology - Enhanced Learning Forest Fire Fighting (international project) (2010-2012).
  2. Forest fires – Preventing and monitoring. Project Erasmus – Joint Development of European Module. Reference no. Of grant Agreement 51388-IC-1-2004-1-RO-ERSAMUS-MODUC-5 (international project).
  3. Definition, assessment and risk zoning for Romanian forests (CLIDON) (Contract CEEX no. 739/2006).
  4. Technology platform of acquisition and decision support for management strategies and policies of forest resources, an integral part of national surveillance network resources. CEEX 59/10.10.2005 (Contract no. 49/2005).
  5. Research regarding the use of digital images in forest economy. Beneficiary R.N.P. (Contract no 57/30.06.2004).
- Memberships**
1. Member of the European Cooperation in the Field Group of Scientific and Technical Research (COST) - *Forests, their Products and Services COST Action FP0701 – Brussels (2008-2012)*
  2. Member of the European Cooperation in the Field Group of Scientific and Technical Research (COST) – *Action CA 15226 „Climate-Smart Forestry in Mountain Regions - CLIMO”.*
- Reviewer**
- Reviewer for ISI journals: *International Journal of Remote Sensing; Remote Sensing Letters; IETE Technical Review; Ecological Risk Assessment: An International Journal; Entropy; Arid Land Research and Management; Human and Ecological Risk Assessment; European Journal of Remote Sensing.*
  - Reviewer for BDI journals: *International Symposium Forest and Sustainable Development; Journal of Geodesy; Bulletin of the Transilvania University of Brasov, Series II – Forestry. Wood Industry. Agricultural Food Engineering; Journal of Environmental Treatment Techniques.*