

INFORMAȚII PERSONALE

Ioan DUTCA

- 1, Sirul Beethoven, Brasov, 500123, Romania
0040 268 413 000
idutca@unitbv.ro
<https://www.unitbv.ro/contact/comunitatea-unitbv/2170-dutca-ioan.html>

Sexul M | Data nașterii 10/11/1980 | Naționalitatea RO

EXPERIENȚĂ PROFESSIONALĂ
SI DIDACTICĂ

- 2012 – present Sef lucrari
Universitatea Transilvania din Brasov
- 2015-prezent Cercetător
Buckinghamshire New University, UK

EDUCAȚIE ȘI FORMARE

- Octombrie 2007 – Mai 2011 Doctor
Universitatea Transilvania din Brasov, Brasov, Romania
- Octombrie 2005 – Iunie 2007 Masterat
Universitatea Transilvania din Brasov, Brasov, Romania
- Octombrie 2000 – Iunie 2005 Licenta
Universitatea Transilvania din Brasov, Brasov, Romania

COMPETENȚE PERSONALE

- Limba(i) maternă(e) Romana

Alte limbi străine cunoscute

Engleza

INTELEGERE		VORBIRE		SCRIERE
Ascultare	Citire	Participare la conversație	Discurs oral	
Nivel avansat	Nivel avansat	Nivel avansat	Nivel avansat	Nivel avansat

Permis de conducere

B

INFORMATII SUPLIMENTARE



- Publicații
- Dutca, I. (2022) Modelare în Silvicultură. Suport de curs. Editura Universității Transilvania din Brașov. pp. 221.
- Dutcă, I., McRoberts, R. E., Næsset, E., & Blujdea, V. N. (2022). Accommodating heteroscedasticity in allometric biomass models. *Forest Ecology and Management*, 505, 119865.
- Stăncioiu, P. T., Șerbescu, A. A., & Dutcă, I. (2021). Live Crown Ratio as an Indicator for Tree Vigor and Stability of Turkey Oak (*Quercus cerris* L.): A Case Study. *Forests*, 12(12), 1763.
- Blujdea, V. N., Sikkema, R., Dutcă, I., & Nabuurs, G. J. (2021). Two large-scale forest scenario modelling approaches for reporting CO₂ removal: a comparison for the Romanian forests. *Carbon Balance and Management*, 16(1), 1-17.
- Osewe, E. O., & Dutcă, I. (2021). The Effects of Combining the Variables in Allometric Biomass Models on Biomass Estimates over Large Forest Areas: A European Beech Case Study. *Forests*, 12(10), 1428.
- Blujdea, V. N., Viskari, T., Kulmala, L., Gârbacea, G., Dutcă, I., Miclăuș, M., ... & Liski, J. (2021). Silvicultural Interventions Drive the Changes in Soil Organic Carbon in Romanian Forests According to Two Model Simulations. *Forests*, 12(6), 795.
- Blennow, K., Persson, J., Gonçalves, L. M. S., Borys, A., Dutcă, I., Hynynen, J., ... & Reyer, C. P. (2020). The role of beliefs, expectations and values in decision-making favoring climate change adaptation—implications for communications with European forest professionals. *Environmental Research Letters*, 15(11), 114061.
- Dutcă, I., Mather, R., & Ioraș, F. (2020). Sampling trees to develop allometric biomass models: How does tree selection affect model prediction accuracy and precision?. *Ecological Indicators*, 117, 106553.
- Dutcă, I., Zianis, D., Petrițan, I. C., Bragă, C. I., Ștefan, G., Yuste, J. C., & Petrițan, A. M. (2020). Allometric Biomass Models for European Beech and Silver Fir: Testing Approaches to Minimize the Demand for Site-Specific Biomass Observations. *Forests*, 11(11), 1136.
- Persson, J., Blennow, K., Gonçalves, L., Borys, A., Dutcă, I., Hynynen, J., ... & Merganičová, K. (2020). No polarization—Expected Values of Climate Change Impacts among European Forest Professionals and Scientists. *Sustainability*, 12(7), 2659.
- Dutcă, I. (2019). The Variation Driven by Differences between Species and between Sites in Allometric Biomass Models. *Forests*, 10(11), 976.
- Dutcă, I., McRoberts, R. E., Næsset, E., & Blujdea, V. N. (2019). A practical measure for determining if diameter (D) and height (H) should be combined into D²H in allometric biomass models. *Forestry: An International Journal of Forest Research*, 92(5), 627-634.
- Stăncioiu, P. T., Dutcă, I., Bălăcescu, M. C., & Ungurean, Ș. V. (2019). Coexistence with Bears in Romania: A Local Community Perspective. *Sustainability*, 11(24), 7167.
- Turtoi A.V., Stăncioiu, P. T., Dutcă, I. (2019). The live crown ratio—an indicator for growth vigor of European beech trees (*Fagus sylvatica* L.). *Revista Padurilor*, 134(4), 29-40.
- Dutcă, I., Mather, R., Blujdea, V.N., Ioraș, F., Olari, M. and Abrudan, I.V., 2018. Site-effects on biomass allometric models for early growth plantations of Norway spruce (*Picea abies* (L.) Karst.). *Biomass and Bioenergy*, 116, pp.8-17.
- Dutcă, I., Stăncioiu, P.T., Abrudan, I.V., Ioraș, F., (2018). Using clustered data to develop biomass allometric models: the consequences of ignoring the clustered data structure, *Plos One*.
- Dutcă, I. (2018). Biomass data for young, planted Norway spruce (*Picea abies* (L.) Karst.) trees in Eastern Carpathians of Romania. *Data in brief*, 19, 2384-2392.
- Dutca, I., Mather, R., Ioras, F. (2018) Tree biomass allometry during the early growth of Norway spruce (*Picea abies*) varies between pure stands and mixtures with European beech (*Fagus sylvatica*). *Canadian Journal of Forest Research*, 48(1), 77-84.
- Palaghianu, C., Dutca, I. (2017) Afforestation and reforestation in Romania: History, current practice and future perspectives. *Reforesta*, 4, 54-68
- Dutca, I., Negruțiu, F., Ioras, F., Maher, K., Blujdea, V.N., Ciuvat, L.A. (2014). The Influence of Age, Location and Soil Conditions on the Allometry of Young Norway Spruce (*Picea abies* L. Karst.) Trees. *Notulae Botanicae Horti Agrobotanici*, 42(2), 579-582. <http://www.notulaebotanicae.ro/index.php/nbha/article/viewFile/9714/7771>
- Ciuvat, A.L., Abrudan, I.V., Blujdea, V., Dutca, I., Nuta, I. S., Elena, E.D.U. (2013). Biomass Equations and Carbon Content of Young Black Locust (*Robinia pseudoacacia* L.) Trees from Plantations and Coppices on Sandy Soils in South-Western Romanian Plain. *Notulae Botanicae Horti Agrobotanici*, 41(2), 590-592.
- Blujdea, V., Pilli, R., Dutcă, I., Ciuvăt, L., Abrudan, I.V. (2012) Allometric biomass equations for young broadleaves in plantations in Romania. *Forest Ecology and Management*, 264, p172–184.
- Dutcă, I. (2011) Estimarea stocării carbonului în plantațiile tinere de molid instalate pe terenuri neforestiere din Carpații Orientali. Editura Universitatii Transilvania din Brasov, pp 121.
- Dutcă, I., Abrudan, I.V., Stăncioiu, P.T., Blujdea, V. (2010) Biomass Conversion and Expansion Factors for Young Norway Spruce (*Picea abies* (L.) Karst.) Trees Planted on Non-Forest Lands in Eastern Carpathians. *Notulae Botanicae Horti Agrobotanici*, 38(3), p286 - 292.

- Stăncioiu, P.T., Abrudan, I.V., Dutcă, I. (2010) The Natura 2000 ecological network and forests in Romania: implications on management and administration, International Forestry Review, Vol.12(1), p106-113.
- Dutcă, I., Abrudan, I.V. (2010) Estimation of Forest Land Cover Change in Romania between 1990 and 2006, Bulletin of Transilvania University of Brasov, Series II Forestry, Wood Industry and Agricultural Food Engineering, Vol. 2 (51), p13-18.
- Dutcă, I., Drăghici, C., Abrudan, I.V., (2009) Comparație între două metode expeditive de estimare a biomasei uscate a acelor și lemnului din ramurile de molid (*Picea abies* L. Karst.) [Two different methods to estimate needles and branches biomass for Norway spruce (*Picea abies* L. Karst)]. In Proceedings of Forest and Sustainable Development.
- Dutcă, I., Abrudan, I.V., Blujdea, V. (2009) The Impact of Afforestation on Carbon Storage - A Review. Bulletin of Transilvania University of Brasov, Series II Forestry, Wood Industry and Agricultural Food Engineering

- Prezentări
- Range of covariate in regression analysis. In: Robust projections of forests under climate change - data, methods and models, Potsdam, Germany, October 2017
 - How effective is age as independent variable in predicting biomass of young trees? In: Modern horticulture: Achievements and Perspectives Chisianu, Republic of Moldova, October, 2015
 - Allometric differences in young Norway spruce trees from pure and mixed stands In: Ecology, silviculture and management of spruce species in mixed forests (IUFRO conference) University of Alberta, Edmonton, Alberta Canada, August 2015
 - The influence of age, location and soil conditions on tree allometry. In: International Symposium "Forest and Sustainable Development", Brasov, Romania, October 2014
 - Carbon sequestration in forest ecosystems in the context of climate change. In: International summer school "Climate Change and Restoration of Degraded Lands", El Hierro, Spain, July 2014
 - The potential of site specific factors in explaining variance in allometric equations. In: International conference "Climate Change and Restoration of Degraded Lands", El Hierro, Spain, July 2014
 - Two different methods to estimate needles and branches biomass for Norway spruce. In: International Symposium "Forest and Sustainable Development", Brasov, Romania, October 2008

- Projekte
- Holistic management practices, modelling and monitoring for European forest soils (HOLISOILS);
Funded by European Commission, Horizon 2020; Period 2021-2025
 - Improving the accuracy and precision of biomass estimations for *Fagus sylvatica* L., from tree level to large area, using terrestrial laser scanning technology – BIOPREDICT; Funded by UEFISCDI; Period: 2020-2022
 - Mobilizing and Monitoring Climate Positive Efforts in Forests and Forestry – FORCLIMIT; Funded by ERA-GAS, Horizon 2020; Period: 2017-2020
 - MSc Programme in Climate Change and Restoration of Degraded Lands Lifelong Learning Programme funded by the European Commission; Period: 2012-2014
 - Green Technology European Virtual Gateway; Lifelong Learning Programme funded by the European Commission; Period: 2012-2014
 - Improving the conditions for large carnivore conservation – a transfer of best practices (LIFE EX-TRA);
Funded by the European Commission; Period: 2010-2012
 - Project title: Data collection for economical assessment of National Protected Areas in Romania;
Funded by the World Bank and United Nations Development Programme; Period: 2011-2012
 - Project title: Integrated Nutrient Pollution Control – Consulting services for development of afforestation plans; Funded by Ministry of Environment and the World Bank; Period: 2009-2012
 - Project title: Training Program for Implementing the Development Strategy of N.F.A. ROMSILVA;
Funded by the World Bank and Ministry of Forests and Rural Development; Period: 2009
 - Project title: Training Program for the Department of Forests and Territorial Inspectorates; Funded by the World Bank and Ministry of Forests and Rural Development; Period: 2008-2009
 - Estimation of carbon accumulation dynamics through afforestation, using classic and modern tools;
Funded by the National Council of Scientific Research in Higher Education, BD programme; Period: 2008-2010
 - Priority forest, sub-alpine and alpine habitats in Romania; Funded by European Commission (LIFE);
Period: 2008
 - Modelling of carbon sequestration in transitory forest ecosystems associated with forest land use change in Romania (FORLUC); Funded by the National Council of Scientific Research in Higher Education, PNII programme; Period: 2007-2010
 - Capacity Building for Managing Eastern European High Conservation Value Forests: Romania;
Funded by DEFRA – Darwin (UK); Period: 2006-2007

