

Author: Assoc. Prof. Dr. Eng. Maria Magdalena Vasilescu

Habilitation thesis title: Implications of the measurement of tree size characteristics on the accuracy of trees and stand volume estimated by mathematical methods

Domain: Forestry

PUBLICATIONS LIST

RELEVANT PAPERS

1. **Albu CT, Dinulică F, Bartha S, Vasilescu MM, Tereşneu CC & Vlad IA (2020). Musical Instrument Lumber Recovery from Romanian Resonance Spruces. BioRes. 15(1): 967-986.**
2. **Dinulică F, Albu CT, Vasilescu MM, Stanciu MD (2019). Bark Features for Identifying Resonance Spruce Standing Timber. Forests 10(9): 799.**
3. **Vlad IA, Goji G, Dinulică F, Bartha S, Vasilescu MM & Mihăiescu T (2019). Consuming Blackberry as a Traditional Nutraceutical Resource from an Area with High Anthropogenic Impact. Forests 10(3): 246.**
4. **Vasilescu MM & Tereşneu CC (2019). Estimating the volume of lower stem-wood on standing beech trees using telemetry and dendrometric tables: a comparison. In: Proceedings of the Biennial International Symposium "Forest and sustainable development", Braşov, Romania, 25-27 October 2018, Transilvania University Press, pp. 83-92.**
5. **Vasilescu MM (2017). Harmonization of the regulations for the volume estimation of the round wood-a priority of the forestry sector. Revista Pădurilor 132(2):11-21.**
6. **Vasilescu MM, Tereşneu CC & Dinulică F (2017a). A rapid method for estimating the median diameter of the stem profile of Norway spruce (*Picea abies* Karst) trees. iForest 10(1): 328.**
7. **Vasilescu MM, Tereşneu CC, Dinulică F, Borz SA & Popa B (2017b). A new stem volume equation for Norway spruce (*Picea abies* (L.) Karst) trees in Romania. Baltic For. 23(3): 626-635.**
8. **Dinulică F, Marcu V, Borz SA, Vasilescu MM & Petriţan IC (2016). Wind contribution to yearly silver fir (*Abies alba* Mill.) compression wood development in the Romanian Carpathians. iForest 9(6): 927.**
9. **Vasilescu MM (2013a). Standard error of tree height using Vertex III. Bulletin of the Transilvania University of Brasov. Forestry, Wood Industry, Agricultural Food Engineering. Series II, 6(2):75-80.**
10. **Vasilescu MM (2013b). The relative level of median diameter on the longitudinal section of Norway spruce (*Picea abies* (L.) Karst) stem. In: Proceedings of the Biennial International Symposium, "Forest and Sustainable Development", Braşov, Romania, 19-20th October 2012. Transilvania University Press, Braşov, pp.129-132.**

PHD THESIS

Research on the scientific background for the optimal establishment of forest shelterbelts network to protect the plain and communication ways in the Boian and Burnaz fields. PhD thesis, Transilvania University of Braşov, Braşov, 258 p.

BOOKS / BOOK CHAPTERS

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2. **Vasilescu M. M.**, 2015: Perdelele forestiere de protecție în contextul organizării teritoriului. Editura Lux Libris, Brașov, 337 p. ISBN: 978-973-131-338-2.
3. Ionescu M., **Vasilescu M. M.**, Tereșneu C. C., 2015: Matematica managementului și managementul proiectelor. Editura Matrix Rom, București, 141p. ISBN: 978-606-25-0197-6.
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1. Albu C. T., Dinulică F., Bartha S., **Vasilescu M. M.**, Tereșneu C. C., Vlad I. A. (2020). Musical Instrument Lumber Recovery from Romanian Resonance Spruces. *BioResources* 15(1): 967-986.
2. Dinulică F., Albu C. T., **Vasilescu M. M.**, Stanciu M. D. (2019). Bark Features for Identifying Resonance Spruce Standing Timber. *Forests* 10(9): 799.
3. Vlad I. A., Goji G., Dinulică F., Bartha S., **Vasilescu M. M.**, Mihăiescu T. (2019). Consuming Blackberry as a Traditional Nutraceutical Resource from an Area with High Anthropogenic Impact. *Forests* 10(3): 246.
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1. Vasilescu M. M., 2017: Harmonization of the regulations for the volume estimation of the round wood- a priority of the forestry sector. Revista Pădurilor 132(2):11-21.
2. Vasilescu, M.M., 2013: Standard error of tree height using Vertex III. In: Bulletin of the Transilvania University of Braşov, Series II, vol. 6 (55) no. 2, Brasov, pp.75-80.
3. Tereşneu C. C., Vasilescu M. M., 2013: Possibilities to automatize the process of elaboration the cadastral documentation. RevCAD, Journal of Geodesy and Cadastre, vol 14, pp. 179-188.
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10. **Vasilescu, M.M., C.C. Tereșneanu**, 2009: Local networks of forest shelterbelts – solution to achieve a national plan. *International Scientific Conference Sustainable Forestry in a Changing Environment*, Bucharest, Romania, October 23-25, 2008, pp. 91-97.

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Maria Magdalena Vasilescu