Autor: Conf. dr. ing. Elena Camelia MUȘAT
Titlul tezei de abilitare: ***DRUMURILE FORESTIERE ȘI CALITATEA LEMNULUI – FACTORI IMPORTANȚI ÎN MANAGEMENTUL FORESTIER SUSTENABIL***
Domeniul: **SILVICULTURĂ**

LISTA DE LUCRĂRI

LUCRĂRI RELEVANTE

1. **Mușat, E.C.*,** 2024a. *How well can sound tomograms characterize inner-trunk defects in beech trees from a burned plot?".* BioResources, vol. 19(4), pp. 7530-7565. **Factor de impact 2023 = 0,464. Scor relativ de influență 2023 = 1,111.** DOI: 10.15376/biores.19.4.7530-7565. Jurnal: https://bioresources.cnr.ncsu.edu/resources/how-well-can-sound-tomograms-characterize-inner-trunk-defects-in-beech-trees-from-a-burned-plot/ Publicat: 27.08.2024 încă neindexat. **Drive: https://drive.unitbv.ro/s/Yy4WmBEe7SWkyEk**
2. Kärhä, K., Seuri, M., Donagh, P.M.M., Acuna, M., Kanzian, C., Petković, V., Gonçalves, R.R.C., Costa, L.H.S., da Cruz, R.C., Krumov, T., Bradley, A., Röser, D., Pinto, C., Dian, W., Pandur, Z., Dvořák, J., Jørgensen, M.T., Muiste, P., Irdla, M., Ginet, C., Purfürst, T., Dietz, H.-U., Spinelli, R., Suzuki, Y., Shirasawa, H., Lazdiņš, A., Visser, R., Harvey, C., Skjølaas, D., Moskalik, T., Trzciński, G., Borz, S.A., **Muşat, E.C.,** Triplat, M., Oberholzer, F., Talbot, B., Tolosana, E., von Hofsten, H., Akay, A.O., Bakay, B., Conrad IV, J., Olivera, A., 2024: *Overview of global long-distance road transportation of industrial roundwood.* In: *Croatian Journal of Forest Engineering,* vol. 25(1), pp. 217-236. **Factor de impact 2023 = 1,038. Scor relativ de influenţă 2023 = 1,003**. DOI: 10.5552/crojfe.2024.2286. WOS: WOS:001145109000006. Jurnal: https://crojfe.com/archive/volume-45-no.1/overview-of-global-long-distance-road-transportation-of-industrial-roundwood/ ISI: https://www.webofscience.com/wos/woscc/full-record/WOS:001145109000006 **Drive: https://drive.unitbv.ro/s/Tc4moMqdMWAiZQ5**
3. **Musat, E.C.*,** 2023. *The agreement in accuracy between tomograms, resistograms and the actual condition of the wood from lime trees harvested from cities*. In: *Bioresources,* vol. 18(1), pp. 1757-1779. **Factor de impact 2023 = 0,464. Scor relativ de influenţă 2023 = 1,111.** DOI: 10.15376/biores.18.1.1757-1779. WOS: WOS:000992668900015 Jurnal: https://bioresources.cnr.ncsu.edu/resources/the-agreement-in-accuracy-between-tomograms-resistograms-and-the-actual-condition-of-the-wood-from-lime-trees-harvested-from-cities/ ISI: https://www.webofscience.com/wos/woscc/full-record/WOS:000992668900015 **Drive: https://drive.unitbv.ro/s/zF5GmWPCms4swGP**
4. **Mușat, E.C.*,** Bitir, I., 2022. *Evaluating the forest road systems subjected to different loadings by using the Finite Element Method*. In: *Forests,* vol. 13, ID article 1872, 26 p. **Factor de impact 2022: 3,282. Scor relativ de influență 2021: 1,318.** DOI: 10.3390/f13111872. WOS: WOS:000881128400001 Jurnal: https://www.mdpi.com/1999-4907/13/11/1872 ISI: https://www.webofscience.com/wos/woscc/full-record/WOS:000881128400001 **Drive: https://drive.unitbv.ro/s/SCaKPP4jiBJJcX7**
5. **Mușat, E.C.,** Borz, S.A.*, 2022. *Learning from acceleration data to differentiate the posture, dynamic and static work of the back: am experimental setup*. In: *Healthcare,* vol. 10(5), ID

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6. **Mușat, E.C.*,** Salcă, E.A., 2022. *Can the characteristics of the crown influence the stability of poplar trees?* In: *Proceedings of the 10th Hardwood Confrence,* 12-14 October 2022, Sopron, Hungary, pp. 142-145. WOS:000945965000028 PISI: https://www.webofscience.com/wos/woscc/full-record/WOS:000945965000028. **Drive: https://drive.unitbv.ro/s/5ZSaB9FdGWoHeJ9**
7. Derczeni, R.A., Salcă, E.A., Ciobanu, D.V., Bitir, I., **Mușat, E.C.*,** Liampas, S.A., 2019. *Establishing criteria for calculating the tax/road tolling for vehicles used for timber transport on forest roads.* In: *Proceedings of the Biennial International Symposium "Forest and Sustainable Development",* The 8th Edition, pp. 161-170. WOS:000659268700016 Conferinta: https://silvic.unitbv.ro/ro/cercetare/conferin%C8%9Be/international-symposium-forest-and-sustainable-development.html CABI: https://www.cabidigitallibrary.org/doi/full/10.5555/20193382878 PISI: https://www.webofscience.com/wos/woscc/full-record/WOS:000659268700016 **Drive: https://drive.unitbv.ro/s/rKswLCrqsW664dB**
8. Iftime, M., **Mușat, E.C.*,** Ciobanu, V.D., 2019. *Analysis of the working accidents recordered during the harvesting of the trees, between 2013 – 2018, for workers of the National Forest Administration, Romsilva, Romania*. In: *Journal of Environmental Protection and Ecology,* vol. 20(4), pp. 1717-1726. **Factor de impact 2019 = 0,161.** Scor relativ de influenţă 2019 = 0,080. WOS:000510868400012 **Jurnal:** http://www.jepe-journal.info/journal-content/vol-20-no-4 ISI: https://www.webofscience.com/wos/woscc/full-record/WOS:000510868400012 **Drive: https://drive.unitbv.ro/s/X2BiZ8sRC7dCKPt**
9. Scriba, C., **Mușat, E.C.*,** Salcă, E.A., Ciobanu, V.D., 2017. *Influence of energy willow crops on soil features in the case of a contaminated land.* In: *Journal of Environmental Protection and Ecology,* vol. 18(4), pp. 1403-1410. **Factor de impact 2017 = 0,195.** Scor relative de influenţă 2017 = 0,061. WOS:000423283800012 ISI: https://www.webofscience.com/wos/woscc/full-record/WOS:000423283800012 **Drive: https://drive.unitbv.ro/s/AkgkYbSaQgff7wK**
10. **Mușat E.C.*,** 2021. *Soluții tehnice pentru combaterea înzăpezirilor prin crearea perdelelor forestiere de protecție: studiu de caz.* In: Revista Pădurilor, vol. 136(4), pp. 31-46. CABI: https://www.cabidigitallibrary.org/doi/full/10.5555/20220372106 Google Scholar: https://scholar.google.com/citations?view_op=view_citation&hl=ro&user=VPp50Q4AAAAJ&cstart=20&pagesize=80&citation_for_view=VPp50Q4AAAAJ:e5wmG9Sq2KIC **Drive: https://drive.unitbv.ro/s/i3Bwdz5XFTY9YiC**

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3. **Mușat, E.-C.,** Ciobanu, V.D., 2016. *Maşini şi utilaje pentru construcţia, întreţinerea şi repararea drumurilor forestiere. Îndrumar de laborator.* Editura Universităţii *Transilvania* din Braşov, 127 p. ISBN 978-606-19-0744-1.
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ARTICOLE ÎN REVISTE COTATE ISI

1. **Mușat, E.C.*,** Abutnăriței, G.L., Hogea, D.D., Miu, L.D., Avram, V.N., Derczeni, R.A., 2024a. Loading round wood in forestry trucks and forestry platforms: a case study for Romania. Forests, Special Issue Sustainable Forest Operations Planning and Management, vol. 15(9), ID articol 1646. DOI: 10.3390/f15091646. Publicat: 18.09.2024 încă neindexat.
2. **Mușat, E.C.,** 2024b. Impact of forest fires on the trees and wood uality – A case study for a beech stand. Fire, Special Issue Post-fire effects on environment, vol. 7(9), ID articol 325. DOI: 10.3390/fire7090325. Publicat: 18.09.2024 încă neindexat.
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7. **Mușat, E.C.,** Borz, S.A.*, 2022. *Learning from acceleration data to differentiate the posture, dynamic and static work of the back: am experimental setup*. In: *Healthcare,* vol. 10(5), ID article 916, 22 p. DOI: 10.3390/healthcare10050916.
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9. Dumitrașcu, A.E., Salca, E.A.*, Mihail, L.A., Ciobanu, V.D., **MUȘAT, E.C.,** 2018. *Inferential Statistics of Quercus Species in Veneer Cutting.* In: *BioResources,* vol. 13(3), pp. 6766-6777.

10. Dumitraşcu, A.E., **Muşat, E.C.,** Dumitraşcu, D.I., Ciobanu, V.D., Salcă, E.A.*, 2017. *Influence of sessile oak log characteristics on the efficiency in veneer cutting.* In: *BioResources*, vol. 12(2), pp. 2579-2591.
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12. Scriba, C., **Mușat, E.C.*,** Salcă, E.A., Ciobanu, V.D., 2017. *Influence of energy willow crops on soil features in the case of a contaminated land.* In: *Journal of Environmental Protection and Ecology,* vol. 18(4), pp. 1403-1410.
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14. **Muşat, E.-C.,** Apăfăian, A.I., Ignea, G., Ciobanu, D.V., Iordache, E., Derczeni, R.A., Spârchez, G., Vasilescu, M.M., Borz, S.A.*, 2016b. *Time expenditure in computer aided time studies implemented for hightly mechanized forest equipment.* In: *Annals of Forest Research*, vol. 59(1), pp. 129-144. Doi: 10.15287/afr.2015.473.
15. Ene, C., Ciobanu, V.D., Dumitraşcu, A.-E., **David, E.-C.,** Borz, S.A.*, 2013. *Resourse management of renewable energy of forest fuel in south-west forest districts of Romania*. In: *Journal of Environmental Protection and Ecology (JEPE)*, vol. 14(4), pp. 1794-1802.

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1. **Mușat, E.C.*,** Vântoiu, C.O., Salcă, E.A., 2024b. *The impact of litter fires on the internal structure of wood from stemm of beech trees. Proceedings of the 10th Hardwood Confrence,* 30-31 May 2024, Sopron, Hungary – în review.
2. **Mușat, E.C.*,** Salcă, E.A., 2022. *Can the characteristics of the crown influence the stability of poplar trees?* In: *Proceedings of the 1 0th Hardwood Confrence,* 12-14 October 2022, Sopron, Hungary, pp. 142-145.
3. Derczeni, R.A., Salcă, E.A., Ciobanu, D.V., Bitir, I., **Mușat, E.C.*,** Liampas, S.A., 2019. *Establishing criteria for calculating the tax/road tolling for vehicles used for timber transport on forest roads.* In: *Proceedings of the Biennial International Symposium "Forest and Sustainable Development",* The 8th Edition, pp. 161-170.
4. **Muşat, E.-C.*,** Ciubotaru, A., Ciobanu, V.D., 2014a. *The external defects and the particularities of the trees crowns located into the green areas of Braşov.* In: *Conference Proceedings of the International Multidsciplinary Scientific Geoconferences (SGEM 2014), 14th GeoConference on Water Resources. Forest, Marine and Oceanic Ecosystems*, vol. II, pp. 461-468.
5. **Muşat, E.-C.*,** Ciubotaru, A., Ciobanu, V.D., 2014b. *The particularities on the crowns for poplar trees located in alignments and forest.* In: *Conference Proceedings of the International Multidsciplinary Scientific Geoconferences (SGEM 2014), 14th GeoConference on Water Resources. Forest, Marine and Oceanic Ecosystems*, vol. II, pp. 485-492.

ARTICOLE INDEXATE ÎN BAZE DE DATE INTERNAȚIONALE

1. Dudás, L., **Mușat, E.C.,** 2023. *Caracteristici biometrice ale arborilor din parcurile Brașovului. Studii de caz: Parcul Gheorghe Dima și Parcul Ina Schaeffler*. In: *Revista Pădurilor*, vol. 138(4), pp. 1-22.
2. **Mușat, E.C.,** Derczeni, R.A., Salcă, E.A., Bratu, C.A., Ciobanu, V.D., 2023. *Evaluation of deformations of the forest road pavements by using the Finite Element Method.* In: *Proceedings of the 10th International Symposium Forest and Sustainable Development,* pp. 135-148.

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5. Bitir I., **Mușat E.C.,** Lunguleasa A.*, Ciobanu V.D., 2021*a. Monitoring the transport on the Ciobănuș forest road within the Bacău Forestry Department*. În*: Recent Journal*, nr. 1(63), pp. 10-16. DOI: 10.31926/RECENT.2021.63.010.
6. Bitir I., **Muşat E.C.*,** Ciobanu V.D., 2021b. *Analiza economică și financiară a soluțiilor tehnice utilizate în reabilitarea suprastructurii drumurilor forestiere.* In: Revista Pădurilor, vol. 136(3), pp. 41-60.
7. **Mușat E.C.*,** 2021. *Soluții tehnice pentru combaterea înzăpezirilor prin crearea perdelelor forestiere de protecție: studiu de caz.* In: Revista Pădurilor, vol. 136(4), pp. 31-46.
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