

# 10<sup>TH</sup> INTERNATIONAL SYMPOSIUM *FOREST AND SUSTAINABLE DEVELOPMENT*

**BRAȘOV, ROMANIA, 14-15 OCTOBER 2022**

**Venue:** International Conference Centre of the Transilvania University of Brasov

(Aula *Sergiu T. Chiriacescu*), Iuliu Maniu Str. 41A, Brasov.

14/10/2022	Conference Day 1 [AULA "Sergiu T. Chiriacescu"]
08:00 - 09:00	Registration [Main Hall – 1 <sup>st</sup> floor]
09:00 - 09:30	<b>Opening session</b> Moderator: Alexandru Lucian Curtu [Aula Magna] Ioan Vasile Abrudan – Rector of the Transilvania University of Brasov, Romania Representatives of partner institutions





09:30 - 11:00	<p style="text-align: center;"><b>Plenary session</b> <b>[Aula Magna]</b> Moderator: Petru Tudor Stăncioiu</p>
09:30 - 10:00	<p style="text-align: center;">Forests' and forestry's role and possible rewards in supporting the subjective well-being of citizens in times of global crises Viliam Pichler, Technical University in Zvolen, Slovakia</p>
10:00 - 10:30	<p style="text-align: center;">Application of genetic markers in forestry Oliver Gailing, Georg August University Göttingen, Germany</p>
10:30 - 11:00	<p style="text-align: center;">Forest and sustainable development: sharing in the responsibility Kwame Tenadu SNR, International Federation of Surveyors</p>
11:00 - 11:30	<p style="text-align: center;">Coffee break <b>[Main Hall – 1<sup>st</sup> floor]</b> and poster session <b>[Main Hall – Ground floor]</b></p>
11:30 – 12:30	<p style="text-align: center;"><b>Plenary session [Aula Magna]</b></p>
11:30 - 12:00	<p style="text-align: center;">Global Overview of Industrial Roundwood Long-Distance Transport on Roads Kalle Kärhä, University of Eastern Finland, Finland</p>
12:00 - 12:30	<p style="text-align: center;">International cooperation in teaching – on the example of the Technodiversity project Jörn Erler, Technical University Dresden, Germany</p>
12:30 – 13:30	<p style="text-align: center;">Lunch <b>[Main Hall – Ground floor]</b></p>
13:30 – 15:30	<p style="text-align: center;"><b>Parallel thematic sessions</b> <i>Forest ecosystem management [Room: U I2]</i></p>



	<p><i>Forest engineering</i> [Room: U I3]</p> <p><i>Wildlife management</i> [Room: U I6]</p> <p><i>Geomatics, informatics, modelling and statistics</i> [Room: U I7]</p>
15:30 - 16:00	Coffee break [Main Hall – 1 <sup>st</sup> floor] and poster session [Main Hall – Ground floor]
16:00 – 17:45	<p><b>Parallel thematic sessions</b></p> <p><i>Forest ecosystem management</i> [Room: U I2]</p> <p><i>Forest engineering</i> [Room: U I3]</p> <p><i>Wildlife management</i> [Room: U I6]</p> <p><i>Geomatics, informatics, modelling and statistics</i> [Room: U I7]</p>
19:00	Official Dinner - Hotel ARO PALACE
15/10/2022	<p>Conference Day 2 – Field trip, departure at 08:00 in front of the Hotel ARO PALACE</p> <p>Faculty of Silviculture and Forest Engineering and Tornator - Oituz Private Forest District: a 10-year joint venture in R&amp;D activities</p>

14/10/2022	<p><b>Forest ecosystem management</b></p> <p>[Room: U I2]</p> <p>Moderator: Victor Dan PĂCURAR</p>
13:30 – 17:30	
13:30 – 13:45	<p><b>Downed Dead Wood. A Really Complex Carbon Stock</b></p> <p><b>Javier BUEZO BRAVO</b>, Nagore GARCÍA MEDINA, Jorge CURIEL YUSTE, J.H.C. CORNELISSEN, Raquel ESTEBAN, Ana-Maria HEREȘ, Elisabeth ILINCA, Ana-Marie PETRITAN, Remus STOIAN, Ion Cătălin PETRITAN</p>
13:45 – 14:00	<b>Past Forest Management – An Important Driver for Forest Biodiversity</b>



	<b>Gabriel DUDUMAN, Cătălina-Oana Barbu, Cezar Valentin TOMESCU</b>
<b>14:00 – 14:15</b>	<b>Stationary and Non-Stationary Tree-Growth-Climate Relationships of Silver Fir, Black Pine and Scots Pine Trees Growing in the Romanian Carpathians</b> <b>Ana-Maria HEREȘ, Josué M. POLANCO-MARTÍNEZ, Ion Catalin PETRITAN, Any Mary PETRITAN, Jorge CURIEL YUSTE</b>
<b>14:15 – 14:30</b>	<b>Integrating Masting Observations for the Main Tree Species in Romania in Time Series</b> <b>Ciprian PALAGHIANU</b>
<b>14:30 – 14:45</b>	<b>Do Different Tree Ring Parameters Contain Different Climate Signals? A Case Study of Norway Spruce in the Eastern Carpathians</b> <b>Andrei POPA, Ionel POPA, Mihai BALABASCIUC, Ovidiu BADEA</b>
<b>14:45 – 15:00</b>	<b>The Influence of the Ethanol in Synthetic Lures for <i>Ips duplicatus</i> - Experimental Design and Preliminary Results</b> <b>Mihai-Leonard DUDUMAN, Gabriela ISAIA, Daniela LUPAȘTEAN, Iuliana VASIAN, Anna JIROŠOVÁ, Rastislav JAKUŠ</b>
<b>15:00 – 15:15</b>	<b>Population Differentiation in <i>Acer platanoides</i> L. at the Regional Scale—Laying the Basis for Effective Conservation of Its Genetic Resources in Austria</b> <b>Heino KONRAD, Desanka LAZIC, Jan-Peter GEORGE, Mari RUSANEN, Dalibor BALLIAN</b>
<b>15:15 – 15:30</b>	<b>Analysis of Genome-Wide Abiotic Genetic Adaptation in European Beech</b> <b>Markus MÜLLER, Christoph LEUSCHNER, Greta WEITHMANN, Robert WEIGEL, Bat-Enerel BANZRAGCH, Wilfried STEINER, Martin HOFMANN, Daniel SCHMIDT, Oliver GAILING</b>
<b>15:30 – 16:00</b>	<b>Coffee break [Main Hall – 1<sup>st</sup> floor] and poster session [Main Hall – Ground floor]</b>
<b>16:00 – 16:15</b>	<b>Multi-Trait Selection in Aegean Region Low Breeding Zone for <i>Pinus brutia</i> Ten.</b> <b>Murat ALAN</b>
<b>16:15– 16:30</b>	<b>Genetic Diversity of Siberian Scots Pine (<i>Pinus sylvestris</i> L.) Populations</b> <b>Marina SELLER, Elena CIOCÎRLAN, Pavel MIKHAYLOV, Sergey KULAKOV, Nadezhda KULAKOVA, Aleksey IBE, Tatyana SUKHIKH, Alexandru Lucian CURTU</b>
<b>16:30 – 16:45</b>	<b>Climate Change Effects and Corresponding Measures for Mitigation and Adaptation to Climate Change in the Southern Julian Alps – A Case</b>



	<b>Study</b> <b>Matevž KONJAR, Jurij BEGUŠ, Matija KLOPČIČ</b>
<b>16:45 – 17:00</b>	<b>The Role of Forests and Pastures in Combating the Economic Vulnerability of Rural Forest Communities During the Corona Outbreak</b> <b>Sajad GHANBARI</b>
<b>17:00 – 17:15</b>	<b>Potentiality of Payment for Ecosystem Services (PES) in Community Forest: Linking Upstream and Downstream Households</b> <b>Pramod GHIMIRE</b>
<b>17:15 – 17:30</b>	<b>Final Remarks &amp; Conclusions</b>

<b>14/10/2022</b>	<b>Forest engineering</b> <b>[Room: U 13]</b> Moderator: Stelian Alexandru BORZ
<b>13:30 – 17:30</b>	
<b>13:30 – 13:45</b>	<b>Simulating Log Quality Driven Transport Strategies</b> <b>Peter RAUCH</b>
<b>13:45 – 14:00</b>	<b>TECNO WOOD Project: A Regional Forestry Wood Quality Supply Chain Project, Based from a Technical, Economic and Environmental Point of View</b> <b>Andrea Rosario PROTO, Vincenzo BERNARDINI, Rosario TURCO, Stefano SCALERCIO, Nicola RICCA, Giuseppe ZIMBALATTI, Salvatore PAPANDREA</b>
<b>14:00 – 14:15</b>	<b>Impacts of LHVs on Operations and Profitability of Timber Transportation: The Case of Finnish Operating Environment</b> <b>Teijo PALANDER</b>
<b>14:15 – 14:30</b>	<b>Combination of a NIR Sensor and a Geostatistical Approach to Estimate Moisture Content of Woody Biomass</b> <b>Gianni PICCHI, Lorenzo ARCIDIACO, Carla NATI</b>
<b>14:30 – 14:45</b>	<b>Performance of UHF RFID Tags in Tracking Timber Products at Mill's Gate</b> <b>Gianni PICCHI, Carla NATI</b>



14:45 – 15:00	<p>Potential of Measure App and of the Integrated Augmented Reality and LiDAR Technologies in Estimating Log Biometrics: A Comparison with Conventional Log Measurement</p> <p>Stelian Alexandru BORZ, Jenny Magaly MOROCHO TOAZA, Gabriel OSEI FORKUO, Marina Viorela MARCU</p>
15:00 – 15:15	<p>Productivity and Fuel Consumption in Skidding Oak Round-wood on Flat Terrains by Farm Tractors</p> <p>Stelian Alexandru BORZ, Victor-Bogdan MITITELU, Eugen IORDACHE</p>
15:15 – 15:30	<p>Performance of Processor Tower Yarder in Regenerative Cut in Coniferous Forests</p> <p>Stanimir STOILOV, Georgi ANGELOV, Salvatore Francesco PAPANDREA, Maria Francessa CATALDO, Andrea Rosario PROTO</p>
15:30 – 16:00	<p>Coffee break [Main Hall – 1<sup>st</sup> floor] and poster session [Main Hall – Ground floor]</p>
16:00 – 16:15	<p>Detection of Coverage / Land Use Changes in Semi-Mountainous Forest Suburban Area</p> <p>Vasileios DROSOS, Ioannis KOUKOULOS, Ioannis SISMANIDIS, Georgios TASIONAS</p>
16:15– 16:30	<p>Financial Support to Forestry in the Context of Forest Bioeconomy – The Case of the Czech Republic</p> <p>Rinn RADEK, Petra PALÁTOVÁ</p>
16:30 – 16:45	<p>Forest Bioeconomy in the Czech Republic – Current State and Outlook for the Future</p> <p>Petra PALATOVA, Rinn RADEK</p>
16:45 – 17:00	<p>Evaluation of Deformations of the Forest Road Pavement by Using the Finite Element Method</p> <p>Elena Camelia MUŞAT, Rudolf Alexandru DERCZENI, Emilia-Adela SALCĂ, Constantin-Alexandru BRATU, Doina Valentina CIOBANU</p>
17:00 – 17:30	<p>Final Remarks &amp; Conclusions</p>



14/10/2022	<b>Wildlife management</b> <b>[Room: U 16]</b> Moderator: Ovidiu IONESCU
13:30 – 17:45	
13:30 – 13:45	<b>Hunting and Human – Bear Conflicts</b> <b>Ana – Gabriela ANUȚOIU, Ovidiu IONESCU</b>
13:45 – 14:00	<b>Population Sustainability Analysis of Przewalski (<i>Procapra przewalskii</i>) using Vortex Software</b> <b>Vasileios DROSOS, DIMITRIOS LAZARIS, Ioannis SISMANIDIS</b>
14:00 – 14:15	<b>Sex-Specific Connectivity Modelling for Brown Bear Conservation in the Carpathian Mountains</b> <b>Ancuta FEDORCA</b>
14:15 – 14:30	<b>Educated Wildlife: Using Existing Underpasses for "Crossing" the Crowded Infrastructure</b> <b>Mihai FEDORCA, Georgeta IONESCU, Flaviu VODĂ, Ancuța FEDORCA, Ovidiu IONESCU</b>
14:30 – 14:45	<b>Structural and Functional Characteristics of Beaver Dams in Romanian Black River Basin</b> <b>Alexandru GRIDAN, Mihai FEDORCA, Claudiu PASCA, Georgeta IONESCU</b>
14:45 – 15:00	<b>Wildlife Management Platform</b> <b>Daniel ILIE, Alexandru GRIDAN, Ramon JURJ, Mihai FEDORCA, Ovidiu IONESCU, Ancuța FEDORCA, Ioana NEGREA, Georgeta IONESCU</b>
15:00 – 15:15	<b>Density and Distribution of Seven Woodpecker Species in Deciduous Forest from Central Romania</b> <b>Dan Traian IONESCU, Călin Vasile HODOR, Emanuel Ștefan BALTAG, Dănuț Nicolae MAZILU, Ștefan Alexandru BARBU, Sylvia Maria HODOR</b>
15:15 – 15:30	<b>Distribution and Population of Tawny Owl (<i>Strix aluco</i>) and Ural Owl (<i>Strix uralensis</i>) in Deciduous Forests from Central Romania</b> <b>Călin Vasile HODOR, Dan Traian IONESCU, Emanuel Ștefan BALTAG, Nicoleta Emilia MĂRȚOIU, Sylvia Maria HODOR</b>
15:30 – 16:00	<b>Coffee break [Main Hall – 1<sup>st</sup> floor] and poster session [Main Hall – Ground floor]</b>
16:00 – 16:15	<b>Identification of the Types of Forest Habitats in the Riparian Areas of the Olt River Watershed</b>



	<b>Ileana IONESCU, Claudiu PAȘCA, Marius POPA, Georgeta IONESCU, Maria SPĂTARU</b>
<b>16:15– 16:30</b>	<b>The Distribution and Density of Mammals Species in the Riparian Areas of Olt River</b> <b>Georgeta IONESCU, Claudiu PASCA, Alexandru GRIDAN, Mihai FEDORCA, Ileana IONESCU</b>
<b>16:30 – 16:45</b>	<b>The History of Photo Trap Camera as a Survey Tool for Wildlife</b> <b>Ion MIREA, Mihai FEDORCA, Iulia BACIU, Roxana CAZACU, Daniel IORDACHE, Ovidiu IONESCU</b>
<b>16:45 – 17:00</b>	<b>Carrying Capacity Calculated in the Perspective of Re-Population with Beavers of the Rivers Argeș, Dâmbovița and Buzău</b> <b>Claudiu PASCA, Marius POPA, Ileana IONESCU, Ovidiu IONESCU</b>
<b>17:00 – 17:15</b>	<b>Considerations Concerning the Dynamics of the Fallow Deer (<i>Dama dama</i> L.) in Romania and Particularly in the Western Plain of Romania</b> <b>Dan Cornel POPOVICI, Ovidiu IONESCU</b>
<b>17:15 – 17:30</b>	<b>Final Remarks &amp; Conclusions</b>

<b>14/10/2022</b>	<b>Geomatics, informatics, modelling and statistics</b> <b>[Room: U 17]</b> Moderator: Mihai Daniel NIȚĂ
<b>13:30 – 17:45</b>	
<b>13:30 – 13:45</b>	<b>Econometric Model for the Forest Sector</b> <b>Liviu-Stelian BEGU, Andreea-Oana ENACHE</b>
<b>13:45 – 14:00</b>	<b>Using ICESat-2 Data for the Detection of Changes in Forest Canopy Height</b> <b>Mihnea CĂȚEANU</b>
<b>14:00 – 14:15</b>	<b>Modelling Forest Ecosystems Services Under the Influence of Climate Change and Forest Management</b> <b>Cosmin COSOFRET, Laura BOURIAUD, Olivier BOURIAUD</b>
<b>14:15 – 14:30</b>	<b>Are Forest Structure Maps based on Field 3D Laser Scanning and Sentinel-2 Vegetation Metrics Suitable for Managing Forests?</b> <b>Bogdan CANDREA, Mihai Daniel NITA, Adrian ENACHE</b>





14:30 – 14:45	<b>Modelling Trees Physical Properties in Representative Norway Spruce (<i>Picea abies</i> (L.) H. Karst) Ecosystems in the North Eastern Carpathians</b> <b>Alexandra ISPRAVNIC, Arcadie CIUBOTARU, Gheorghe STEFAN, Radu VLAD</b>
14:45 – 15:00	<b>Using UAV Aerial Imagery for Determining Tree Height and Crown Diameter (Case Study: Zagros Oak Forests)</b> <b>Vahid NASIRI, Fardin MORADI, Ahmad Abbasnezhad ALCHIN, Seyed Mohammad MOEIN SADEGHI, Carmen MAFTEI</b>
15:00 – 15:15	<b>Efficiency of Gross Fixed Capital Formation in Forestry – Data Envelopment Analysis Cross-country Comparison in EU</b> <b>Nikolay NEYKOV, Aureliu-Florin HALALISAN, Petar ANTOV</b>
15:15 – 15:30	<b>Can Spaceborne and Terrestrial LiDAR Technology Be Used to Map the Forest Structure?</b> <b>Gabriela BABAN, Mihai Daniel NITA</b>
15:30 – 16:00	<b>Coffee break [Main Hall – 1<sup>st</sup> floor] and poster session [Main Hall – Ground floor]</b>
16:00 – 16:15	<b>Effect of Nurse Shrub on Taxonomic and Functional Diversity under Different Grazing Intensities and Climate Regimes</b> <b>Soroor RAHMANIAN, Hamid EJTEHADI, Mohammad FARZAM, Maral BASHIRZADE</b>
16:15– 16:30	<b>Spatio-Temporal Monitoring of Meteorological Drought using the SPI Index</b> <b>Atiyeh AMINDIN, Mozhgan BORDBAR, Zeynab Najafi DEREIMI, Soroor RAHMANIAN, Hamid Reza POURGHASEMI</b>
16:30 – 16:45	<b>An Integrated Assessment and Monitoring Framework for Effective Forestlands Governance and Sustainable Management of Forest Resources</b> <b>Moschos VOGIATZIS</b>
16:45 – 17:00	<b>Final Remarks &amp; Conclusions</b>



### Poster Presentations

No.	Title	Authors
1.1	Foliar Nutrition Status of Main Forest Species in Romania	<b>Cristian ANGHELUȘ</b> , Alexandru Liviu CIUVĂȚ, Elena DELEANU, Alexandru DOBRE
1.2	Invasive Behaviour of Oak Lace Bug, an Alien Insect Species, in ROMANIAN OAK FORESTS	<b>Flavius BĂLĂCENOIU</b> , Romică TOMESCU, Carol Dieter SIMON, Dragoș TOMA, Andrei BUZATU, Alina ALEXANDRESCU, Constantin NEȚOIU
1.3	Estimating Forest Fuel Biomass of Iranian Northern Zagros Forests	Asma Karamat MIRSHEKARLOU, Abbas BANJ SHAFIEI, <b>Hadi BEYGI HEIDARLOU</b>
1.4	The Spatial Heterogeneity and Recent Evolution of the Gaps in the Largest Beech Virgin Forest of South-Eastern Europe – the Nera Forest Reserve	Daniel-Ond TURCU, Mihai Daniel NIȚĂ, <b>Gheorghe Florian BORLEA</b>
1.5	Ecosystem Services Generated by Young Plantation Forests Established on Degraded Lands in Drought Prone Areas from South-Eastern Romania	<b>Alexandru Liviu CIUVĂȚ</b> , Elena DELEANU, Cristiana Georgeta CIUVĂȚ, Cristiana MARCU, Cristian ANGHELUȘ, Șerban CHIVULESCU, Alexandru DOBRE
1.6	Ecological Reconstruction of Stands Affected by Harmful Abiotic Factors	<b>Cristinel CONSTANDACHE</b> , Ciprian TUDOR, Laurențiu POPOVICI
1.7	Concentration of Heavy Metals in Annual Rings of Coniferous Trees Affected by Local Industrial Pollution	<b>Cosmin Ilie CUCIUREAN</b> , Cristian Gheorghe SIDOR
1.8	Chemical eliminating of weeds prior to reforestation of oak forests	Verica VASIĆ, <b>Milutin ĐILAS</b> , Saša ORLOVIĆ
1.9	Cigarette Butt as a Carbon Source and Its Potential Application in the Preservation of Environmental Protection	<b>Vladimir DODEVSKI</b> , Bojan JANKOVIC, Hadi WAISI, Sanja KRSTIC, Jasmina POPOVIC
1.10	Study on the Foliar Pests of Three Species of Trees from Alignments of Florești Park	<b>Cristina DRAGHICI</b> , Gabriela ISAIA, Diana CULESCU
1.11	Assessment of Heavy Metal Pollution using the Monumental Trees Leaves	Diana VASILE, <b>Raluca ENESCU</b> , Emilia MIHALACHE, Virgil SCĂRLĂTESCU



No.	Title	Authors
1.12	Fruit-Providing Species in Locally-Led Climate Change Adaptation Strategies in Arasbaran Forests, Iran	<b>Sajad GHANBARI</b>
1.13	Contributions to Flora and Vegetation of Piatra Craiului National Park (I)	Marius DANCIU, Darie PARASCAN, <b>Dan-Marian GUREAN</b> , Victor Adrian INDREICA
1.14	Plant Species Diversity in Relation with Forest Management of Beech-Conifer Forests in Postavaru Mts. (Carpathians Mts., Romania)	<b>Adrian INDREICA</b> , Gabriel LAZĂR, Tudor STĂNCIOIU
1.15	Study on the Diversity of Beetles Captured in Unbaited Intercept Traps in Codrul Secular Șinca, Brașov County, Romania	<b>Ionuț-Marian DRAGOMIR</b> , Gabriela-Aurora ISAIA, Mihai-Leonard DUDUMAN, Ion-Cătălin PETRIȚAN
1.16	Influence of Herbicides Application on CO <sub>2</sub> Emission from Soil during the Regeneration of Pedunculate Oak Stand	<b>Velisav KARAKLIĆ</b> , Zoran GALIĆ, Miljan SAMARDŽIĆ
1.17	Historical Changes of the Quantitative and Qualitative Characteristics of Tbilisi City Forest under Climate Change Conditions	<b>Giorgi KAVTARADZE</b> , Koba CHIBURDANIDZE, Giorgi VACHNADZE, Zviad TIGINASHVILI, Elizaveta AVOIANI, Niko KARSIMASHVILI
1.18	The Cleridae (Insecta: Coleoptera) from the "Friedrich Deubel" Entomological Collection of the Faculty of Silviculture and Forest Engineering, "Transilvania" University of Brasov	<b>Daniel Kazimir KURZELUK</b> , Ionut-Marian DRAGOMIR
1.19	Can Agroforestry Systems Reduce the Pressure on the Forest Area?	<b>Elena MIHĂILĂ</b> , Mihăiță BÎTCĂ, Adrian TUDORA, Laurențiu POPOVICI
1.20	Spring and Autumn Phenology Monitoring in European Beech along an Altitudinal Transect in Brasov during 2021 and 2022	<b>Mihnea-Ioan-Cezar CIOCÎRLAN</b> , Alexandru Lucian CURTU
1.21	Beech ( <i>Fagus sylvatica</i> L.) Response to Climate in the Eastern Most Sites at Its European Distribution	<b>Catalin-Constantin ROIBU</b> , Ciprian PALAGHIANU, Viorica NAGAVCIUC, Monica IONITA, Victor SFECLA, Andrei MURSA, Alan CRIVELLARO, Andrei POPA, Marian-Ionut STIRBU, Mihai-Gabriel COTOS, Irina SFECLA, Ionel POPA
1.22	Impact of Inter-Annual Rainfall Variability on Soil Fertility: A Case Study of Kasama District	<b>Stanley SAMPA</b>



No.	Title	Authors
1.23	Dynamics of Some Structural Parameters in a Norway Spruce ( <i>Picea abies</i> (L.) H. Karst) Stand Installed using Different Planting Schemes	<b>Gheorghe ȘTEFAN</b> , Alexandra ȘTEFAN, Gheorghe PEI, Arcadie CIUBOTARU, Radu VLAD, Victor Vasile MIHĂILĂ
1.24	Satyagraha a Gandhian Approach of Building Grassroots Institutions & Leadership to Sustain Rural Ecology, Livelihood and Governance of Commons	<b>Shailendra TIWARI</b>
1.25	Relationship between Phoretic Mites and <i>Ips typographus</i> (Linnaeus,1758) (Coleoptera: Scolytinae) Population in Coniferous Forests in Romania	<b>Dragoș TOMA</b> , Gabriela ISAIA
1.26	The Influence of the Structure on the Health State of the Pine Stands Installed on the Degraded Lands in the Vrancea Subcarpathians	Ciprian <b>TUDOR</b> , Cristinel CONSTANDACHE, Laurențiu POPOVICI
1.27	Management Goals for Mixed Beech-Coniferous Stands from Romanian High Productivity Sites	Avram CICȘA, Gheorghe SPÂRCHEZ, <b>Gheorghe-Marian TUDORAN</b> , Maria BOROEANU, Alexandru-Claudiu DOBRE
1.28	Black Pine Health And Growth Outside Its Habitat in the Romanian Carpathians	<b>Gheorghe-Marian TUDORAN</b> , Avram CICȘA, Maria BOROEANU, Alexandru-Claudiu DOBRE, Ionuț Silviu PASCU
1.29	The Romanian National Catalogue of Virgin and Quasi-Virgin Forests, a powerful Instrument for the Protection of High Degree Naturalness Forest Ecosystems	<b>Daniel-Ond TURCU</b>
1.30	Forest Ecosystem Services: Impact of Trees on Human Health	<b>Martina ZORIĆ</b> , Marko KEBERT, Saša KOSTIĆ, Milutin ĐILAS, Lazar KESIĆ, Emina MLADENOVIĆ, Saša ORLOVIĆ
1.31	Assessment of Genetic Variability in Scots Pine ( <i>Pinus sylvestris</i> L.) Provenance Trials in Romania	<b>Emanuel STOICA</b> , Georgeta MIHAI, Alin - Mădălin ALEXANDRU
1.32	Current activities and challenges facing the North Central Forest Enterprise - Gabrovo	<b>Iilka YONOVSKA</b>



No.	Title	Authors
2.1	Rational Forest Opening-up as a Tool for Sustainable Development and Exploitation of the Semi Mountainous Areas in Greece	Vasielios DROSOS, <b>Ioannis KOUKOULOS</b> , Ioannis SISMANIDIS, Georgios TASIONAS
2.2	Multi-Criteria Assessment of the Environmental Construction and Operation of a Forest Road from a Forest Technical Point of View	<b>Vasielios DROSOS</b> , Ioannis KOUKOULOS, Ioannis SISMANIDIS, Georgios TASIONAS
2.3	The Changes in Chemical Composition of Narrow Leaved Ash Wood in Regard to the Conditions of the Acetic Acid Pretreatment	<b>Jasmina POPOVIC</b> , Mladjan POPOVIC, Petar GAJIC, Marko PERUNICIC, MilankaDJIPOROVIC, Vladimir DODEVSKI
2.4	Methods for Seedbed Preparation in Forestry Nurseries	<b>Nicușor BOJA</b> , Adrian PICA, Ilie POPESCU
2.5	Do the Socio-Demographic Features Control the Willingness to Pay for Conservation of Tropical Forest-Based Benefits in Ecuador? A Prospective Study by Unsupervised Machine Learning	Alex Vinicio GAVILANES MONTOYA, Danny Daniel CASTILLO VIZUETE, Marina Viorela MARCU, <b>Stelian Alexandru BORZ</b>
2.6	Using the Land Transformation Model to Forecast Deforestation in Zagros Sparse Coppice Oak Forest	<b>Hadi Beygi HEIDARLOU</b> , Abbas Banj SHAFIEI, Mahdi ERFANIAN, Amin TAYYEBI, Ahmad ALIJANPOUR, Asma Karamat MIRSHEKARLOU
2.7	Mapping Forest Structural Parameters Using Mobile Scanners - Case Study in ROSPA0037 Dumbravita-Rotbav-MaguraCodleiSite	<b>Lucian MIZGACIU</b> , Mihai Daniel NITA, Dan TraianIONESCU
2.8	Forest Transport Planning with Considering the Potential Environmental Risks	<b>Oleg STYRANIVSKY</b>
2.9	Methods of the Forest Machines on the Traffic Ground Surface Negative Impact Reducing	<b>Oleg MACHUGA</b> , Andriy SHCHUPAK, Yuriy LUSTA
3.1	Evaluation of the Quantity of Bushmeat Consumed Around the Lama Classified Forest in Southern Benin and Consumer Motivations	<b>Hermann Ghislain CHABI</b> , Gnanki Nathalie KPERA, Sylvetre DJAGOUN CAM
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