

FORMEC 2026

Tuesday 15 September 2026

Paralel session 3: Climate-Smart Operations: Carbon, LCA and Resilient Forest Systems - L 201 - L201 (16:00 - 17:30)

time	[id] title	presenter
16:00	[27] Wood-Based Construction and Climate Change Mitigation: A Literature Review on Resilient Forest Value Chains	RENGIFO, César
16:18	[42] Carbon Footprint Assessment of Teak Plantation Management under the Thai Silvicultural Regime	KAAKKURIVAARA, Nopparat
16:36	[72] Barriers and Prospects for Biodegradable Hydraulic Oils in Forest Machines – Insights from Finland	KYMÄLÄINEN, Heli
16:54	[163] The role of replacing pure stands with mixed stands in improving forest productivity, resilience, and product diversity	ZGELA, Lucija
17:12	[168] Comparative life cycle assessment of hybrid and conventional diesel harvesters	Mrs YADEGARI, Mahsa

Paralel session 3: Decarbonising the Wood Supply Chain - L 301 - L301 (16:00 - 17:30)

time	[id] title	presenter
16:00	[41] Energy consumption and greenhouse gas emissions of liquefied biogas (LBG)-powered heavy-duty woodchip trucks in Finland: Preliminary results	HUUSKONEN, Sami
16:18	[85] Towards a low-carbon wood supply chain: Improving logistics in the Polish context	Dr NUREK, Tomasz TRZCIANOWSKA, Marta
16:36	[102] From Critical Bottlenecks to Resilient Breakthroughs: Innovative Insights from Timber Trucking Entrepreneurs Across Europe	Dr KOGLER, Christoph
16:54	[154] Managing uncertainty in wood supply – a Monte Carlo approach to risk analysis	FJELD, Dag
17:12	[125] Analyzing resilience in electric truck charging stations in forestry transport	PERNESTÅL, Anna

Paralel session 3: Learning the Forest: AI for Species, Structure and Damage Detection - DP 106 - DP106 (16:00 - 17:30)

time	[id] title	presenter
16:00	[71] Automated Assessment of Harvesting Quality Using Machine and Point-Cloud Data in Thinning Stands	Mr POHJALA, Johannes
16:18	[160] Automated Forest Stand Segmentation Using Airborne 3D Data and Machine Learning	SARKLETI, Valentin
16:36	[44] ForestFusionNet: A Unified Deep Learning Framework for Multimodal Tree Species Classification in Young Boreal Forests	GYAWALI, Arun
16:54	[185] Automated Detection of Bark Stripping from LiDAR Data Using Convolutional Neural Networks	OFNER-GRAFF, Tobias
17:12	[164] Automated Deep Learning for Forest Resource Mapping to Drive Efficient Operational Planning	MOHAMED ISLAM, KESKES

Parallel session 3: Steep Terrain, Salvage and Alternative Harvesting Pathways - DP 201 - DP201 (16:00 - 17:30)

time	[id] title	presenter
16:00	[20] Animal logging in an industrial economy: reasons for survival and future perspectives	MAGAGNOTTI, Natascia
16:18	[68] Two-stage trucking in NZ steep-land harvesting.	BEST, Trevor
16:36	[17] A new high-tech low-cost light yarder for small-scale forestry	SPINELLI, Raffaele
16:54	[170] Transforming Steep-Terrain Forestry: Specialized Winch-Assisted Platforms and Integrated Excavator-Based Earthwork and Harvesting Solutions	Dr SASAKI, Shozo
17:12	[195] LoRaWAN IoT system to improve safety operation in remote steep slope harvesting?	Prof. GRIGOLATO, Stefano

Parallel session 3: Towards Autonomous Forestry: Robots, Teleoperation and Smart Machines - DP 107 - DP107 (16:00 - 17:30)

time	[id] title	presenter
16:00	[55] Process Analysis for Semi-Autonomous Reforestation Operations with Autonomous Mobile Robots	Mrs KRAUTH, Anja
16:18	[57] Integrated Vision and Crane Control for Autonomous Log Handling	MIRANDA LA HERA, Pedro Xavier
16:36	[175] Multi-Modal Perception and Navigation Framework for Automated Driving of Forestry Machines	WANG, Zezhou
16:54	[171] Beyond Automation and Control: Rethinking Forestry Crane Design for Energy Efficiency	MENDOZA TREJO, Omar
17:12	[157] Satellite-Based Low-Latency Teleoperation of Forestry Delimbers for Remote Full-Tree Operations	VAIDIS, Maxime