

FEC - FORMEC - 2014 conference
Contributions

ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
45	Sirén, Matti; Hyvönen, Juha and Surakka, Heikki	Tree damage in mechanized uneven-aged selection cuttings	Uneven-aged management, selection cutting, mechanized harvesting, tree damage, spatial analysis	A	Forest operations: environmental concerns and natural hazards	Matti	Sirén	matti.siren@metla.fi	METLA	Finland
52	Corbic Vladimir; Klvac Radomir; Stojnic Dusan	Method of investigation towards better forest fires risk management due to the improved forest biomass utilization	logging residue, biomass, forest fire, decision support tool	A	Forest operations: environmental concerns and natural hazards	Vladimir	Corbic	corbic.vladimir@yahoo.com	Mendel University in Brno Faculty of Forestry and Wood Technology	Czech Republic
139	Widinghoff Jenny 1; Fogdestam Niklas 2; Löfroth Claes 3;	HCT vehicles for timber transport in Sweden - Results from the ETTdemo project	round wood transportation, higher payloads, fuel consumption, emissions, transportation costs	A	Forest operations: environmental concerns and natural hazards	Jenny	Widinghoff	jenny.widinghoff@skogforsk.se	Skogforsk	Sweden
143	Jaafari Abolfazl; Najafi Akbar	Spatial prediction of slope failure in the Caspian forest using an adaptive neuro-fuzzy inference system and GIS	ANFIS; Landslide susceptibility; Road construction; Timber harvesting	A	Forest operations: environmental concerns and natural hazards	Akbar	Najafi	a.najafi@modares.ac.ir	Tarbiat Modares Univesity (TMU)	Iran
178	Drosos Vasileios C...	Environmental effects of forest operations on a suburban forest landscape – a forest engineering approach	biological landscape, cultural landscape, physical landscape, decision-making.	A	Forest operations: environmental concerns and natural hazards	Vasileios	Drosos	vdrosos@fmenr.duth.gr	Democritus University of Thrace	Greece
203	Bohrn, Stampfer & Huber	Application of fertilizer spreaders for wood ash utilization	Keywords: wood ash, utilization, fertilizer spreader, spreading techniques,	A	Forest operations: environmental concerns and natural hazards	Christoph	HUBER	christoph.huber@boku.ac.at	BOKU	Austria
55	Di Fulvio Fulvio; Bergström Dan	Evaluation of a prototype harvester head for rough delimiting and compression in early energy wood thinning	felling head, harvester head, bioenergy, energy wood, rough-delimiting	A	Innovation-driven developments in harvesters and forwarders	Fulvio	Di Fulvio	fulvio.di.fulvio@slu.se	SLU	Sweden
146	Lindroos, Ola; Ringdahl, Ola; La Hera, Pedro; Hohnloser, Peter; Hellström, Thomas	Estimating the harvester head's position - a missing link to the future's precision forestry	Spatial modelling, ALS, timber traceability, automation, StanForD, IMU, joint sensors, laser.	A	Innovation-driven developments in harvesters and forwarders	Ola	Lindroos	ola.lindroos@slu.se	SLU	Sweden
215	Nicolas PERRIGUEY - Zine Elabidine CHEBAB Céline DEVEMY - Guillaume DARGNAT - Benjamin HATTON David GOUBET – Jean-Christophe FAUROUX - Vincent GAGNOL Belhassen-Chedli BOUZGARROU - Grigore GOGU	Harvesting Machines for crooked trees	Harvesting Heads, Crooked trees, Contact Modelling, CAD, multibody modelling	A	Innovation-driven developments in harvesters and forwarders	Nicolas	Perriguet	nicolas.perriguet@ifma.fr	IFMA	France
221	Piotr S. Mederski, Mariusz Bembenek, Zbigniew Karaszewski & Martyna Gierszewska	Directing the development of mechanised forest operations to meet changes in Polish forestry		A	Innovation-driven developments in harvesters and forwarders	Piotr	Mederski	piotr.mederski@up.poznan.pl	Poznań University of Life Sciences, Department of Forest Utilisation	Poland
53	Ge Xiaowen; Wang Lihai; Bao Zhenyu; Sun Tianyong	Comparative analysis of four estimation methods of stand volume and different staged measurement and analysis of sub-compartment output volume in Eucalyptus stump area	stand volume; sample plot inventory; Angle Gauge plot; tally; output volume; pile measurement; truck measurement; comparative analysis	A	Measuring and tagging logs along the supply chain	Lihai	Wang	lihaiwang@yahoo.com	Forest Operations and Forest Environment Research Centre, Northeast Forestry University	P. R. China
67	Murphy, Glen 1; Valkenburg, Robert 2; Ganley, Donal 3	Development of an automated system for counting, measuring and tracking export logs arriving on trucks and railway wagons	forestry chain, logistics, computer vision, log measurement, export logs.	A	Measuring and tagging logs along the supply chain	Glen	Murphy	glen.murphy@waiariki.ac.nz	GE Murphy & Associates	New Zealand
97	Saralecos, Jarred D.	Influence of Region, Seasonality, and Species on Weight to Volume Relationships of Commercial Sawlogs in Idaho	Log scaling, weight to volume relationships, weight scaling	A	Measuring and tagging logs along the supply chain	Jarred	Saralecos	sara7015@vandals.uidaho.edu	University of Idaho	USA
185	Jaeger, Dirk; Opferkuch, Martin	Improved wood delivery by new scaling methods of log piles	log diameter assessment, log length assessment, single-grip harvester, log count, volume of log pile	A	Measuring and tagging logs along the supply chain	Dirk	Jaeger	dirk.jaeger@fobawi.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
208	J-P van der Merwe, R. E. Pulkki, P. A. Ackerman, D. Längin	The impact of mechanical log surface damage on fibre loss and chip quality when processing Eucalyptus pulpwood using a single-grip harvester	Mechanised debarking, chip quality, fibre loss	A	Measuring and tagging logs along the supply chain	J-P	van der Merwe	packer@sun.ac.za	Department of Forest and Wood Sciences, Stellenbosch University	South Africa

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57	Grönlund Örjan; Iwarsson Wide Maria; Englund Martin	Using a harvester simulator to evaluate work methods in thinning	Multi tree handling; harvester performance; operator work load; early thinning; small tree harvest	B	Ergonomics and Man-Machine co-developments	Örjan	Grönlund	orjan.gronlund@skogforsk.se	Skogforsk	Sweden
113	Melemez Kenan; Tunay Metin; Emir Tuna	An evaluation on whole-body vibration affecting tractor and truck operators	Ergonomics, Forestry, Seat, Tractor, Truck, Whole-body vibration	B	Ergonomics and Man-Machine co-developments	Kenan	Melemez	kmelemez@hotmail.com	Bartın University, Faculty of Forestry	TURKEY
115	Manavakun Nopparat	A comparison of OWAS and REBA observational techniques for assessing postural loads in tree felling and processing	Observational techniques, OWAS, REBA, tree felling, cross-cutting	B	Ergonomics and Man-Machine co-developments	Nopparat	Manavakun	fform@ku.ac.th	Department of Forest Engineering, Faculty of Forestry, Kasetsart University	Thailand
145	La Hera, Pedro; Ortiz Morales, Daniel; Westerberg, Simon; Lindroos, Ola	Analysis of human generated crane motion patterns – towards the automation of forestry manipulators	Hydraulic manipulator, motion sensors, trajectory planning, boom-tip control, joystick control,	B	Ergonomics and Man-Machine co-developments	LA HERA	Pedro	ola.lindroos@slu.se	SLU	Sweden
165	Häggström Carola; Englund Martin; Lindroos Ola; Lidestav Gun	Eye-tracking as a research tool to analyse work conducted by harvester operators	ergonomics, eye tracking, focus, gaze patterns, forest harvesting, physiological measures, research tools, single grip harvester, vision	B	Ergonomics and Man-Machine co-developments	Carola	Häggström	carola.haggstrom@slu.se	SLU	Sweden
49	Lindeman; Ala-Ilomäki; Uusitalo	Possibilities to reduce rut formation in logging operations on unfrozen peatland	peatland, harvesting, bearing capacity, rut formation, wide logging trails, high flotation logging machinery, logging machinery running gear type	B	Trafficability practices and understanding of forest soil characteristics	Harri	Lindeman	harri.lindeman@metla.fi	METLA	Finland
88	Noémie Goutal-Pousse; Pascal Bonnaud; Jérôme Demaison; Gilles Nourrisson; Pascal George; Jacques Ranger	Soil compaction on two sensitive sites in north-eastern France and natural or assisted recovery processes	soil compaction, soil structure regeneration, disking, local subsoiling, liming	B	Trafficability practices and understanding of forest soil characteristics	Noémie	Pousse	noemie.pousse@onf.fr	ONF-département R&D	France
96	Christian Knobloch, Christian Jacobs	Innovative concept of a forwarding system for considerate treatment of forest soil and improved efficiency	forwarding system, sensitive forest soil, new kind of carriage, economical optimisation	B	Trafficability practices and understanding of forest soil characteristics	Christian	Knobloch	knobloch@forst.tu-dresden.de	TU Dresden	Germany
127	Öhman Mikael; Bergsten Urban; Nordfjell Tomas; Ågren Anneli	Flexible extra wheel-attachment to decrease ground pressure of a harvester	Rutting, soft ground, soil penetration resistance, soil disturbance, trafficability	B	Trafficability practices and understanding of forest soil characteristics	Mikael	Öhman	mikael.ohman@slu.se	SLU	Sweden
144	Borchert; Huber; Goettlein; Kremer	Nutrient concentration on skid trails under brushmats: is a redistribution of nutrients possible?	soil compaction, brush-mat, nutrient balance	B	Trafficability practices and understanding of forest soil characteristics	Herbert	Borchert	Herbert.Borchert@mail.de	Bavarian State Institute of Forestry (LWF)	Germany
24	Visser, Rien; Tolan, Alex	Optimising Harvesting and Processing Operations within the Value Chain	Mechanised processing; Value recovery; Harvesting Operations	B	Wood supply chain management and decision support tools	Rien	Visser	rien.visser@canterbury.ac.nz	School of Forestry	New Zealand
62	Thomas Carrette, Christophe Ginet	Wood transport qualification to anticipate regulatory constraints	Wood transport, GPS tracking, Geo-localization, Regulatory, Speed profile	B	Wood supply chain management and decision support tools	Thomas	Carrette	thomas.carrette@fcba.fr	FCBA	France
93	Akay, Abdullah E.; Azad Haji Kakol, Aso	Forest Transportation Planning by using GIS-based Decision Support System	Forest transportation, logging operation, GIS, decision support systems	B	Wood supply chain management and decision support tools	Abdullah E.	Akay	akay@ksu.edu.tr	Kahramanmaraş Sutcu Imam University	TURKEY
160	Frisk Mikael; Rönnqvist Mikael; Flisberg Patrik; Andersson Gert	Optimized scheduling of harvesting teams	optimization, operational planning, scheduling, harvest planning, supply chain planning	B	Wood supply chain management and decision support tools	Mikael	Frisk	frisk@creativeoptimization.se	Skogforsk	Sweden
222	Ben D. Spong & Shawn T. Grushecky	West Virginia Logger Travel Distance and Wood Supply Zone Opportunities	haul distance, travel distance, harvest planning	B	Wood supply chain management and decision support tools	Ben	Spong	Ben.Spong@mail.wvu.edu	West Virginia University	USA
223	Mauricio Acuna	Integrated transportation tools to optimise timber and biomass supply logistics	logistics and transportation planning, optimal truck allocation, truck dispatching	B	Wood supply chain management and decision support tools	Mauricio	Acuna	macuna@usc.edu.au	AFORA - University of the Sunshine Coast	Australia
31	Strandgard, Martin; Mitchell, Rick	Monitoring long-term forwarder productivity using onboard computer data	Precision forestry, GNSS, forwarder, long-term productivity	C	From traditional to automated work studies	Martin	Strandgard	mnstra@unimelb.edu.au	University of the Sunshine Coast	Australia
117	Grigolato Stefano; Poje Anton; Pellegrini Marco; Potocnik Igor; Cavalli Raffaele	Analyzing forwarder operation by consumer-grade GPS in mountainous conditions	Forwarder, Time Study, Forest operations, Precision Forestry, GPS	C	From traditional to automated work studies	Stefano	Grigolato	stefano.grigolato@unipd.it	University of Padova - TESAF Department	Italy
129	Kosir Bostjan, Spinelli Raffaele	Forest work studies: who, why, how	Work studies; Delays; Methods; Funding sources;	C	From traditional to automated work studies	Raffaele	Spinelli	spinelli@ivalsa.cnr.it	CNR-IVALSA	Italy

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134	Borz Stelian Alexandru; Popa Bogdan; Ignea Gheorghe; Sparchez Gheorghe	Estimating the Time Consumption and Productivity of Round Wood Skidding in Group Shelterwood Cuttings – A Case Study in a Mixed Stand Located in Reduced Accessibility Conditions	skidding, efficiency, group shelterwood system, time prediction, production rates	C	From traditional to automated work studies	Stelian Alexandru	Borz	stelian.borz@unitbv.ro	Department of Forest Engineering, Transilvania University of Brasov	Romania
142	Manner Jussi; Palmroth Lauri; Lindroos Ola; Nordfjell Tomas	Forwarding work study with automatic data recording	Delay time, driving speed, follow up study, fuel consumption, overlapping work elements, time study, work study methodology	C	From traditional to automated work studies	Jussi	Manner	jussi.manner@slu.se	SLU	Sweden
158	John Arlinger; Johan J Möller;	Time studies based on automatic data collection	time studies, harvester, automatic data collection	C	From traditional to automated work studies	John	Arlinger	john.arlinger@skogforsk.se	Skogforsk	Sweden
10	Laitila Juha; Väätäinen Kari; Niemistö Pentti	Productivity of multi-tree cutting in thinnings and clear cuttings of downy birch (Betula pubescens) in the integrated harvesting of pulpwood and energywood	coppice forests, peatlands, multi-tree-handling, time study, integrated harvesting, forest fuel	C	Harvesting technics and working methods for biomass mobilization	Juha	Laitila	juha.laitila@metla.fi	METLA	Finland
44	RUCH Philippe, ULRICH Erwin, PISCHEDDA Didier, MONTAGNY Xavier	Mechanized harvesting of big broadleaves crowns	crowns, mechanization, broadleaves, grapple saw, biomass	C	Harvesting technics and working methods for biomass mobilization	Philippe	RUCH	philippe.ruch@fcba.fr	FCBA	FRANCE
58	Eliasson, Lars; von Hofsten, Henrik; Spinelli, Raffaele; Johannesson, Tomas	Effects of sieve size on chipper productivity, fuel consumption and chip size distribution for open drum chippers	Biomass, Forest fuel, chip quality	C	Harvesting technics and working methods for biomass mobilization	Lars	Eliasson	lars.eliasson@skogforsk.se	Skogforsk	Sweden
103	Tom Gallagher, Daniel P. Leite de Souza, Mathew Smidt, Tim McDonald, Dana Mitchell and Jeff Wright	Determining the impact of felling method and time of the year on coppice regeneration	harvesting, bioenergy	C	Harvesting technics and working methods for biomass mobilization	Tom	Gallagher	tgallagher@auburn.edu	Auburn University	USA
161	Lerma, Victoria; Oliver-Villanueva, Jose Vicente; Segura, Guillem	Case study: Comparison of two harvesting methods for bioenergy under Mediterranean conditions	bioenergy, woodchips, time study, harvesting, productivity, carbon balance, energy balance, cost-benefit analysis, Pinus halepensis	C	Harvesting technics and working methods for biomass mobilization	Victoria	Lerma Arce	vicky.lerma.arce@gmail.com	AIDIMA/ UPV	Spain
175	Picchi Gianni, Raffaele Spinelli, Giorgio Ragolini	A new machine for the extraction of SRC stumps for biomass production	Poplar, stumps, biomass, mulcher, SRC	C	Harvesting technics and working methods for biomass mobilization	Gianni	Picchi	picchi@ivalsa.cnr.it	CNR-IVALSA	Italy
23	Visser, Rien; Raymond, Keith; Harrill, Hunter	New Developments in Fully Mechanising Steep Terrain Harvesting Operations	Safety; Mechanisation; Steep slope harvesting; System Productivity; New Zealand	C	Logging in Steep terrain	Rien	Visser	rien.visser@canterbury.ac.nz	School of Forestry	New Zealand
29	Arif Oguz Altunel, Tayyibe Altunel, Korhan Enez, Burak Aricak	CABLE YARDING POTENTIAL and ITS CURRENT SHARE IN TURKISH LOGGING	Turkish forest operations, logging, cable yarding	C	Logging in Steep terrain	Arif Oguz	Altunel	aoaltunel@kastamonu.edu.tr	Kastamonu University	TURKEY
47	Fernando Vélez	Small and simple technology cable system for logging	Cable-line logging, thinning harvesting, logging for forest management	C	Logging in Steep terrain	Fernando	Vélez	fernando.velez52@gmail.com	independent professional in Colombia	Columbia
75	Talbot Bruce, Aalmo Giovanna Ottaviani, Stampfer Karl	Productivity and Systems Analysis of an Excavator Based Running Skyline in Two Alternative Working Configurations in Norway	Cable yarding; steep terrain, logging; productivity studies	C	Logging in Steep terrain	Bruce	Talbot	bta@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway

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87	Hoffmann Stephan; Schoenherr Siegmar; Jaeger Dirk; Engler Benjamin	Benefits of varying cable yarding technologies with respect to specific timber harvesting and extraction needs in Southern China	Cable Yarding, Harvesting, China	C	Logging in Steep terrain	Stephan	Hoffmann	stephan.hoffmann@fobawi.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
32	Bergsten Urban; Hedblom Maria	Answering future specific challenges in harvesting – Views of design students	: Environmentally gentle technique, silvicultural technology, industrial design	D	Innovation-driven developments in harvesters and forwarders	Urban	Bergsten	urban.bergsten@slu.se	SLU	Sweden
79	Öhman Mikael; Haggström Carola; Nordfjell Tomas	Active brake-link for faster and safer forwarding	time study, productivity, thinning, boom-tip, logging damage, residual stand, ergonomics, vibration, occupational health, physical workload.	D	Innovation-driven developments in harvesters and forwarders	Mikael	Öhman	mikael.ohman@slu.se	SLU	Sweden
85	Nordfjell Tomas	The technical evolution and market of forwarders in Sweden	Forest history, hauling, mechanization, invention, sales statistics	D	Innovation-driven developments in harvesters and forwarders	Tomas	Nordfjell	tomas.nordfjell@slu.se	SLU	Sweden
104	Ismoilov Abbas; Sellgren Ulf; Andersson Kjell;	A CONCEPT STUDY OF A FOUR-WHEELED FORESTRY MACHINE WITH ACTIVE PENDULUM AXELS OPERATING ON SOFT AND ROUGH SOIL	chassis levelling, forest machine, ground damage, hydraulic suspension system, multibody dynamic simulation, off-road, rough terrain	D	Innovation-driven developments in harvesters and forwarders	Abbos	Ismoilov	ismoilov@kth.se	KTH	Sweden
216	Céline DEVEMY - Guillaume DARGNAT - Benjamin HATTON David GOUBET - Nicolas PERRIGUEY - Zine Elabidine CHEBAB Jean-Christophe FAUROUX - Vincent GAGNOL Belhassen-Chedli BOUZGARROU - Grigore GOGU	Determination and optimization of delimiting forces on hardwood harvesting heads	Delimiting, Harvester head, Cutting force, Knives, Blade shape, Test bench, Hardwood tree	D	Innovation-driven developments in harvesters and forwarders	Céline	DEVEMY	celine.devemy@ifma.fr	IFMA	France
300	Federico Ezequiel Báez Morandi	Multi-objective optimization and performance evaluation of chassis suspensions for forest machines		D	Innovation-driven developments in harvesters and forwarders	Federico Ezequiel	Báez Morandi	feb@kth.se	KTH	Sweden
66	Claire Cornillier; Philippe Ruch	Life Cycle Assessment of woody biomass from energy crops	LCA, carbon footprint, woody biomass, energy crops, mechanization, SRC	D	Looking for efficient bioenergy supply chains	Claire	Cornillier	claire.cornillier@fcba.fr	FCBA	France
68	Irdla Marek; Padari Allar; Muiste Peeter	The logistics of wood chips in Estonian conditions - a case study	wood chips; logistics, case study	D	Looking for efficient bioenergy supply chains	Marek	Irdla	marek.irdla@emu.ee	Estonian University of Life Sciences	Estonia
105	Yoshida Mika; Hideo Sakai	Establishment of transportation system of low value wood biomass for the early stage of energy supply	logistics, biomass energy, truck transportation, logging residue	D	Looking for efficient bioenergy supply chains	Mika	Yoshida	yoshida@fr.a.u-tokyo.ac.jp	The University of Tokyo	Japan

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133	Bergström, Dan; Di Fulvio, Fulvio	The effect of implementing innovative harvesting and handling technologies for young dense thinning on the cost and energy efficiency of supply systems	bioenergy, fuel wood, pre-commercial thinning, productivity, pulpwood	D	Looking for efficient bioenergy supply chains	Dan	Bergström	dan.bergstrom@slu.se	SLU	Sweden
205	Taner Turkmengil - Eric Jessup - Matthias Dees	Improved BioMass Market Efficiency and Price Discovery from Online Auctions	Biomass, Market, Auction, Supply-Chain, Transport, Logistics	D	Looking for efficient bioenergy supply chains	Taner	Turkmengil	taner.tuerkmengil@felis.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
214	Teemu Mustonen & Matti Tuukkanen	TCS – AN OPERATIONAL SYSTEM FOR CONTROL AND OPTIMIZATION OF FOREST BIOMASS LOGISTICS	Biomass, TCS, transport, logistics, planning, optimization, innovative technology, information system, cost-efficiency	D	Looking for efficient bioenergy supply chains	Teemu	Mustonen	teemu.mustonen@ecomond.com	Ecomond Ltd.	Finland
12	Canga Elena; Sánchez-García Sandra; Prado Enrique; Majada Juan.	PRODUCTIVITY AND COST ANALYSIS OF A WHEELED SKIDDER IN CHESTNUT COPPICE FORESTS IN THE NORTH OF SPAIN. PRELIMINARY EVALUATION OF THE SOIL COMPACTION OF FOREST ROAD.	Wheeled skidder, time study, soil compaction.	D	Trafficability practices and understanding of forest soil characteristics	Elena	Canga Libano	ecanga@cetemas.es	CETEMAS (Forest and Wood Technology Research Centre)	Spain
34	Jori Uusitalo; Harri Lindeman, Jari Alalommäki	Possibilities to predict moisture content of peat soil at the moment of harvest operation	bearing capacity, tree harvesting, VWC	D	Trafficability practices and understanding of forest soil characteristics	Jori	Uusitalo	jori.uusitalo@metla.fi	METLA	Finland
84	Pierzchała Marek; Talbot Bruce; Astrup Rasmus	ESTIMATING SOIL DISPLACEMENT IN SKID TRAIL CONSTRUCTION USING STEREO-PHOTOGRAMMETRY AND LIDAR	road construction, photogrammetry, UAV, DEM	D	Trafficability practices and understanding of forest soil characteristics	Marek	Pierzchała	map@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
109	Pirnazarov Abdurasul; Sellgren Ulf; Löfgren Björn	Review and application of analytical models of forest soil bearing capacity	Wheel, soil, bearing capacity, shearing, root reinforcement, rut depth	D	Trafficability practices and understanding of forest soil characteristics	Abdurasul	Pirnazarov	abpirnaz@kth.se	KTH	Sweden
218	Matiss Bicevskis and Ivars Kalmuks	Non-durable use wood motor roads	low bearing capacity; reducing costs; timber availability	D	Trafficability practices and understanding of forest soil characteristics	Matiss	Bicevskis	M.Bicevskis@lvm.lv	Latvia's state forest	Latvia

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60	Baker, Shawn; Greene, Dale	UGA Logging Cost Index: A Measure of Southern US Timber Harvesting Costs	harvesting costs, cost index, logging industry	E	Contractors and durable business	Shawn	Baker	shbaker3@uga.edu	University of Georgia	USA
83	Vennesland Birger; Eva Skagestad; Nybakk Erlend	Importance of Internal and External Factors for Forest Contractors in Norway - The Manager's View	Business Competence; Success Factors; Investments and Technology	E	Contractors and durable business	Birger	Vennesland	vbi@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
114	Erlandsson Emanuel; Lidestav Gun; Fjeld Dag	Consequences of Varying Industrial Contexts on Procurement and Management of Logging Services: Comparisons Between two Swedish Forest Companies	harvesting; operations management; service procurement	E	Contractors and durable business	Emanuel	Erlandsson	emanuel.erlandsson@slu.se	SLU	Sweden
120	Đuka, Andreja; Poršinsky, Tomislav; Pentek, Tibor; Šporčić, Mario	Influence of Prescribed Method of Roundwood Scaling on Forwarder Efficiency	Prescribed measurement of roundwood, mass, volume, forwarder.	E	Contractors and durable business	Andreja	Đuka	aduka@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
157	Sääf Malin 1; Björheden Rolf 2	The communication process between contractors and clients	Contractor forestry, communication process, business agreements	E	Contractors and durable business	Malin	Sääf	malin.saaf@skogforsk.se	Skogforsk	Sweden
219	Elizabeth Dodson, Dale Greene, Shawn Baker, Steve Hayes	Logging Cost Indices for the United States	Financial management; negotiation; financial planning; cost forecasting	E	Contractors and durable business	Elizabeth	Dodson	elizabeth.dodson@umontana.edu	University of Montana	USA
9	Partington, Mark; Gillies, Clayton	Achieving successful road performance and reducing the environmental impact of resource roads in wetland environments	Resource roads; forest roads; wetlands; soft soils; culvert foundations; road engineering; environmental impacts, hydrologic function	E	Forest roads and environment	Mark	Partington	mark.partington@fpinnovations.ca	FPIinnovations	Canada
42	Pentek Tibor; Nevečeral Hrvoje; Poršinsky Tomislav; Šporčić Mario; Lepoglavec Kruno; Papa Ivica	Secondary opening of sloped terrain forests – a GIS study for timber skidding	secondary forest opening, skid roads, sloped terrain, skidder, GIS	E	Forest roads and environment	Tibor	Pentek	pentek@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
92	Péterfalvi; Primusz; Markó; Kosztka	Evaluation of the Effect of Lime-Stabilized Subgrade on the Performance of an Experimental Road Pavement	forest opening up, lime-stabilization, road test, bearing capacity	E	Forest roads and environment	József	Péterfalvi	jpeterfa@emk.nyme.hu	University of West Hungary, Faculty of Forestry, Institute of Geomatics and Civil Engineering	Hungary
174	Adrian Enache, Karl Stampfer, Bruce Talbot, Jan Bjerketvedt	Assessment of environmental performance and cost analysis of forest roads due to construction, maintenance and utilization – case studies in Romanian and Norwegian mountain forests	forest roads, LCA, energy efficiency, forest operations	E	Forest roads and environment	Adrian	Enache	adrian.enache@boku.ac.at	BOKU	Austria

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199	Kevin Boston, PhD, PE, RPF	Subgrade Strength Recovery in Forest Roads in Oregon	road and water management	E	Forest roads and environment	Kevin	Boston	Kevin.boston@oregonstate.edu	Oregon Stat Uni. Department of Forest Engineering,	USA
37	Erber Gernot	Fuelwood moisture content management through meteorological data based modelling	moisture content, modelling, fuel wood, supply chain performance	E	Fuelwood quality and moisture content management	Gernot	Erber	gernot.erber@boku.ac.at	BOKU	Austria
43	Routa Johanna and Sikanen Lauri	Precision Measurement of Forest Harvesting Residue Moisture Change and Dry Matter Losses by Constant Weight Monitoring	energy wood, wood chips, quality, storing, natural drying, dry matter loss	E	Fuelwood quality and moisture content management	Johanna	Routa	johanna.routa@metla.fi	METLA	FINLAND
56	Fridh, Lars; Eliasson, Lars	An accurate and fast method for moisture content determination.	biomass, forest fuel, chips, logging residues,	E	Fuelwood quality and moisture content management	Lars	Fridh	lars.fridh@skogforsk.se	Skogforsk	Sweden
74	Kuptz Daniel; Hartmann Hans	Energy efficient production of high quality wood chips using energy round wood instead of forest residues	wood chip production; energy round wood; forest residues; fuel quality; energy consumption; ISO 17225-4; ash content; elemental composition; particle size	E	Fuelwood quality and moisture content management	Daniel	Kuptz	daniel.kuptz@tfz.bayern.de	Technologie- und Förderzentrum (TFZ)	Germany
116	Eirik Nordhagen, Simen Gjølshø	Wood chip quality	bioenergy, standards, wood chip, quality	E	Fuelwood quality and moisture content management	Eirik	Nordhagen	eno@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
204	Eric Jessup - Juliana Walkiewicz - Matthias Dees	BioGas Woodchip Drying Innovation for Reduced Bioenergy Production Cost	Biomass, Wood Chip, Drying, Supply-Chain, Production Costs, Innovative Technology, Transport, Logistics	E	Fuelwood quality and moisture content management	Juliana	Walkiewicz	juliana.walkiewicz@felis.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
4	Mohammad Reza Ghaffariyan, Mauricio Acuna & Mark Brown	Biomass harvesting residue supply chain optimisation and verifying the effect of major parameters affecting the supply chain cost in Western Australia	forest harvesting residues, biomass supply chain, operational costs, storage, moisture mass fraction	F	Looking for efficient bioenergy supply chains	Mohammad Reza	Ghaffariyan	ghafari901@yahoo.com	AFORA - University of the Sunshine Coast	Australia
7	Jingxin Wang, Damon Hartley	Optimizing Bioenergy Supply Chain Configurations for the Northeastern United States	Supply Chain, Optimization, Biomass, Bioenergy	F	Looking for efficient bioenergy supply chains	Jingxin	Wang	jxwang@wvu.edu	West Virginia University	USA
54	Athanassiadis Dimitris, Enström Johanna, Mikael Öhman, Örjan Grönlund	Success factors for larger forest fuel terminals	Terminals, forest fuel, best practice, establishment	F	Looking for efficient bioenergy supply chains	Johanna	Enström	johanna.enstrom@skogforsk.se	Skogforsk	Sweden
80	Alain BOUVET; Bernard PENZ; ...	Logistics optimization of a biomass supply chain	Supply-chain	F	Looking for efficient bioenergy supply chains	Alain	BOUVET	alain.bouvet@fcba.fr	FCBA	FRANCE
194	Dominik Roser	Improving the efficiency of forest biomass supply chains in Canada	bioenergy, integrated harvesting, thinning operations, technology & know-how transfer, forest biomass harvesting technology	F	Looking for efficient bioenergy supply chains	Dominik	Roser	dominik.roser@fpinnovations.ca	FPInnovations	Canada
94	ARICAK Burak; H. Hulusi ACAR; ALTUNEL Arif Oğuz; KURTİPEK Adem; ENEZ Korhan	How to Effectively Set up Cable Yarding Corridors: A Case Study of Central Turkish Example	Cable yarding; LIDAR	F	Operational uses of remote sensing technologies for logging operation	BURAK	ARICAK	baricak@kastamonu.edu.tr	Kastamonu University	TURKEY
125	Philippe Meek, Jean-Martin Lussier	LiDAR Mapping as an Aid to Partial Cutting in Heterogeneous Stands.	Lidar mapping, partial cut, tree selection, decision support, cost saving	F	Operational uses of remote sensing technologies for logging operation	Philippe	Meek	philippe.meek@fpinnovations.ca	FPInnovations	Canada
189	Robert Keefe and Lindsay Grayson	Applications of multi transmitter GPS-VHF in forest operations	Forest operations, terramechanics, simulation	F	Operational uses of remote sensing technologies for logging operation	Robert	Keefe	robk@uidaho.edu	University of Idaho	USA
195	Søvde Nils Egil; Talbot Bruce; Bjerketvedt Jan; Pierzchala Marek	Variable extraction cost modelling on high resolution terrain models	Forwarding; shortest path; steep terrain; logging,	F	Operational uses of remote sensing technologies for logging operation	Nils Egil	Søvde	nis@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
209	Lars Wilhelmsson, Andreas Barth, Johan J Möller, John Arlinger, Rikard Hedberg, Ulf Söderman	A case study on the prediction of detailed product recovery from individual stem profiles based on airborne laser scanning and models for predicting wood and fibre properties and forest residues	Case, ALS, field inventory, CTL-harvesters, value chain, product recovery, log properties, forest residues	F	Operational uses of remote sensing technologies for logging operation	Lars	Wilhelmsson	lars.wilhelmsson@skogforsk.se	Skogforsk	Sweden

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ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
38	Dinev Dinko, Vardunski Jelio	ANALYSIS OF THE FIRST STEPS IN THE INTRODUCTION OF THE HARVESTER AND THE FORWARDER IN LOGGING, IN BULGARIA	logging, new technology, harvester, forwarder, productivity, operators, activity analysis	F	Workforce training and skills developments	Dinko	Dinev	dinevds@gmail.com	Oak Forest Experimental Station	Bulgaria
71	Šporčić Mario; Posavec Stjepan; Landekić Matija; Pentek Tibor; Poršinsky Tomislav	Development and Implementation of Innovations in Croatian Forestry	Innovation, forestry, innovation policy, managing forest company, decision making, rationalisation, Croatia	F	Workforce training and skills developments	Mario	Šporčić	sporcic@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
86	Schoenherr Siegmarr; Hoffmann Stephan; Jaeger Dirk; Engler Benjamin	Successful training strategies for introducing cable yarding technologies in China	Cable Yarding, Training, China	F	Workforce training and skills developments	Siegmarr	Schoenherr	siegmarr.schoenherr@fobawi.uni-freiburg.de	Chair of Forest Operations, University of Freiburg	Germany
183	Smidt; Xu; Zhang	An assessment of wage and skill level among logging equipment operators in the USA	wage, skill, logging worker	F	Workforce training and skills developments	Mathew	Smidt	smidtmf@auburn.edu	Auburn University	USA
201	Fjeld, Erikson, Frisk, Lemieux, Marrier, Rönnqvist	University training for industrial wood supply	forest operations education	F	Workforce training and skills developments	Dag	Fjeld	dag.fjeld@slu.se	SLU	Sweden
211	Dr. John J. Garland	The Limiting Factor in North American Forest Operations: A Skilled Workforce	labor force, logging workforce, forestry services, recruitment, training	F	Workforce training and skills developments	John	Garland	johngarland49@gmail.com	Consulting Forest Engineer	USA
72	Lideskog Håkan; Karlberg Magnus	Automatic clearcut obstacle identification using a time-of-flight camera	clearcut obstacles, obstacle identification, site preparation, mounding, time-of-flight camera	P1	Ergonomics and Man-Machine co-developments	Håkan	Lideskog	hakan.lideskog@ltu.se	Luleå University of Technology, Division of Product and Production Development	Sweden
180	Sauter, Udo Hans; Foeller, Joerg	Terrestrial real-time navigation for harvesting machines	Terrestrial machine navigation, real-time, radio-technology	P1	Ergonomics and Man-Machine co-developments	Udo Hans	Sauter	udo.sauter@forst.bwl.de	Forest Research Institute Baden-Wuerttemberg	Germany
22	Gilanipour Najibeh, Najafi Akbar; Heshmatolvaezin Seyed Mehdi	Optimum combination of animal and farm tractor skidding systems in log removing	Skidding systems, Animal skidding, Farm tractor, Continuous time study, Multiple regression model, Hour cost, Hour productivity.	P1	From traditionnal to automated work studies	Akbar	Najafi	a.najafi@modares.ac.ir	Technical University in Zvolen	Slovakia
147	Nurek Tomasz	TIME STRUCTURE OF WORKING DAY WHILE PERFORMING WOOD HARVESTING - ECONOMIC VIEW	Harvesting, planning, costs, wood	P1	From traditionnal to automated work studies	Tomasz	Nurek	tomasz_nurek@sggw.pl	Warsaw University of Life Sciences, Faculty of Production Engineering	Poland
150	Lindroos, Ola; Wadbro, Eddie	Scrutiny of factors affecting extraction distances of forwarders	Distance, forwarding, extraction, forest hauling, prediction model, optimization	P1	From traditionnal to automated work studies	Ola	Lindroos	ola.lindroos@slu.se	SLU	Sweden
179	Ghajar Ismael; Naghdi Ramin; Nikooy Mehrdad; Yousefifard Sepideh	Mathematical Time Prediction Models of Loader HSM 904 Using Multiple Linear Regressions (MLR) and Adaptive Neuro Fuzzy Inference System (ANFIS)	Loading; time prediction; forest operation; Fuzzy Inference System; Linear regression	P1	From traditionnal to automated work studies	Ismael	Ghajar	i.ghajar@guilan.ac.ir	Department of Forestry, Faculty of Natural Resources, University of Guilan	Iran
6	Laitila Juha; Väättäin Kari	The cutting productivity in integrated harvesting of pulpwood and delimbed energy wood with a forestry-equipped peat harvesting tractor	time consumption models, first thinning, harvester, integrated harvesting, forestry-equipped peat harvesting tractors, peatlands	P1	Harvesting technics and working methods for biomass mobilization	Juha	Laitila	juha.laitila@metla.fi	METLA	Finland
20	Berg Simon, Nordfjell Tomas, Nurmi Juha	Ground disturbance and diameters of roots at breakage points after stump harvesting	bioenergy, stump drill, conventional harvest, alternative technology	P1	Harvesting technics and working methods for biomass mobilization	Simon	Berg	simon.berg@slu.se	SLU	Sweden
33	Mitchell Rick, Strandgard Martin	Comparison of harvester time consumption and productivity in Eucalyptus globulus planted and second rotation coppiced plantations in south west Western Australia	Harvester, coppice, planted, cycle times, productivity, stump volume, Eucalyptus globulus	P1	Harvesting technics and working methods for biomass mobilization	Rick	Mitchell	rmitchel@usc.edu.au	University of the Sunshine Coast	Australia
39	Trichkov Lyubcho, Dinev Dinko	STATE AND TRENDS FOR UTILIZAION OF THE WOOD BIOMASS FOR BIOFUELS IN BULGARIA	wood biomass, bio-fuels, briquettes, pellets, charcoal, map of manufacturers, problems	P1	Harvesting technics and working methods for biomass mobilization	Dinko	Dinev	dinevds@gmail.com	Oak Forest Experimental Station	Bulgaria
59	Eliasson, Lars; Lombardini, Carolina; Widinhoff Jenny	Efficient chip supply systems improve chipper utilisation	Biomass, Forest fuel, logistics, chip trucks	P1	Harvesting technics and working methods for biomass mobilization	Lars	Eliasson	lars.eliasson@skogforsk.se	Skogforsk	Sweden

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ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
76	Sonesson, Johan; Jacobson, Staffan; Eliasson, Lars; Wilhelmsson, Lars; Arlinger, John	Forest management systems for increased harvest of small trees for energy purposes.	Scots pine; thinning; soil expectation value; forest fuel; biomass, log properties	P1	Harvesting technics and working methods for biomass mobilization	Lars	Eliasson	lars.eliasson@skogforsk.se	Skogforsk	Sweden
90	Richard Emeyriat ; Sébastien Cloarec ; Henri Husson ; Jean-Raymond Liarçou ; Jérôme Moreau	Harvesting of heart stumps from Poplar and Maritime Pine forest in South West France	Biomass ; Woodchips ; Stumps ; Time studies	P1	Harvesting technics and working methods for biomass mobilization	Richard	EMEYRIAT	richard.emeyriat@foretlogistique.eu	FORET LOGISTIQUE CONSEIL	FRANCE
141	Magagnotti Natascia; Lombardini Carolina; Spinelli Raffaele	Comparing CTL with WT harvesting in the thinning of Mediterranean pine plantations	Logging; Biomass; Chipping; Compaction; Stand damage	P1	Harvesting technics and working methods for biomass mobilization	Natascia	Magagnotti	magagnotti@ivalsa.cnr.it	CNR-IVALSA	Italy
159	Schulmeyer, Fabian; Hüttl, Karl	Survey of forest roadside wood chipping operations in Bavaria	wood chipping, productivity, delays	P1	Harvesting technics and working methods for biomass mobilization	Fabian	Schulmeyer	fabian.schulmeyer@lwf.bayern.de	Bavarian State Institute of Forestry (LWF)	Germany
166	Spinelli Raffaele, Brown Mark, Giles Rick, Huxtable Dan, Laina Relaño Ruben, Magagnotti Natascia.	Biomass production from mallee agroforestry plantations in Western Australia	mechanization; economics; energy; chips; belts	P1	Harvesting technics and working methods for biomass mobilization	Natascia	Magagnotti	magagnotti@ivalsa.cnr.it	CNR-IVALSA	Italy
193	Picchi Gianni, Giovanni Aminti, Raffaele Spinelli	A harvesting system for agricultural woody crops at plantation removal	Biomass, chipper, plantations	P1	Harvesting technics and working methods for biomass mobilization	Gianni	Picchi	picchi@ivalsa.cnr.it	CNR-IVALSA	Italy
81	Ersson, Back Tomas; Jundén, Linus; Lindh, Mattias; Bergsten, Urban	Simulated Productivity of Conceptual, Multi-Headed Tree Planting Devices	planting machine, mechanized tree planting, boom-tip planting head, discrete-event simulation, terrain model, SimPy, mounding, site preparation, scarification, silviculture	P1	Innovation-driven developments in harvesters and forwarders	Back Tomas	Ersson	back.tomas.ersson@slu.se	SLU	Sweden
101	Mahmoud Chakroun, Emmanuel Cacot	Using systematic innovation to develop a new hardwood harvesting tool	hardwood harvesting, eco-design, methodology of innovation, TRIZ	P1	Innovation-driven developments in harvesters and forwarders	Mahmoud	Chakroun	mahmoud.chakroun@fcba.fr	FCBA	France
124	Zorić Marko, Horvat Dubravko, Šušnjar Marijan, Pandur Zdravko, Galović Josip	Morphological analysis of chainsaws – useful decision making tool	morphological analysis, chainsaw	P1	Innovation-driven developments in harvesters and forwarders	Marko	Zorić	mzoric@sumfak.hr	Forestry Faculty of Zagreb University, Department of Forest Engineering	Croatia
220	Janine Schweier, Raffaele Spinelli and Gero Becker	Analyzing different machines for mechanized harvesting of hardwoods in Italy	mechanized harvesting, hardwood	P1	Innovation-driven developments in harvesters and forwarders	Janine	Schweier	janine.schweier@fobawi.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
224	Catherine Collet	Mechanical tools for site preparation in forest plantation: networks of field sites for evaluating and promoting innovative methods!		P1	Innovation-driven developments in harvesters and forwarders	Catherine	Collet	collet@nancy.inra.fr	INRA	France
14	Akay, Abdullah E. 1; Gulci, Nese 2; Gulci, Sercan 3;	A Chute System Integrated with Mobile Winch and Synthetic Rope to Extract Logs in Mountainous Regions	Wood extraction, chute system, mobile winch, synthetic rope	P1	Logging in Steep terrain	Abdullah E.	Akay	akay@ksu.edu.tr	Kahramanmaraş Sutcu Imam University	TURKEY
48	Paul MAGAUD	Analyze of productivities data's for cable yarding in the French Alps	cable yarding, time studies, productivity models, French Alps	P1	Logging in Steep terrain	Paul	MAGAUD	paul.magaud@fcba.fr	FCBA	France
121	Nordhagen, Gjølsjø, Belbo, Kjøstelsen	Recovery of logging residues from final harvest in steep terrain	Bioenergy, logging residue, biomass functions, steep terrain, transport	P1	Logging in Steep terrain	Eirik	Nordhagen	eno@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
173	Picchi Gianni, Huurinainen Seppo, Gort-Oromi Jaume, Nolan Enda, Keane Enda, Kuhmaier Martin, De Amicis Raffaele	Project SLOPE: introducing new technologies in mountain forest operations	Steep terrain, harvest, cable yarder, precision forestry	P1	Logging in Steep terrain	Gianni	Picchi	picchi@ivalsa.cnr.it	CNR-IVALSA	Italy
2	Jean-François Gingras, Martin Castonguay & Jean Favreau	Monitoring forest supply chains in remote areas using FPInnovations' FPSuite platform	datalogger, on-board computer, harvesting, productivity, efficiency, supply chain	P1	Wood supply chain management and decision support tools	Jean-François	Gingras	jean-francois.gingras@fpinnovations.ca	FPInnovations	Canada
8	Amir Mohammad Abdolahian Sohi	Assessing Systematical Framework in Forest Products Supply Chain to Sustain Forest Industry	Business Process, Interaction, Net Profit, Productivity, Shortage	P1	Wood supply chain management and decision support tools	Amir Mohammad	Abdolahian Sohi	amas_ci@yahoo.com	Islamic Azad University, Science & Research Branch, Tehran, Iran	IRAN
46	Müller	Development and Implementation of a Sustainability Performance Improvement Model on Transport and Logistics Chains in the French Forest Based Sector	Transportation, Sustainable Logistics, Sustainable Supply Chain Management, Integration, Sustainability Performance	P1	Wood supply chain management and decision support tools	Frank	Müller	framue@gmail.com	FCBA	France

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ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
77	Brodbeck, Frank; Sauter Udo Hans	An information platform for forest harvesting technologies and working methods as decision support system for practitioners	Decision support system, information platform, harvesting technologies, working methods, rating,	P1	Wood supply chain management and decision support tools	Frank	Brodbeck	Frank.Brodbeck@forst.bwl.de	Forest Research Institute of Baden-Wuerttemberg (FVA), Department of Forest Utilization	Germany
170	EKER, Mehmet; ÖNAL, Yunus Emre	LIFE CYCLE ANALYSIS FOR TECHNOLOGY SELECTION IN TIMBER HARVESTING	LCA, timber harvesting, life cycle inventory, energy balance, technology selection	P1	Wood supply chain management and decision support tools	Mehmet	EKER	mehmeteker@sdu.edu.tr	Süleyman Demirel University, Faculty of Forestry	TURKEY
182	Christina Förster	Building models with the simulation software Witness.	simulation, cableway system	P1	Wood supply chain management and decision support tools	Christina	Förster	foerster-christina@gmx.de	TU Dresden, Institut Forsttechnik	Germany
192	Grayson Lindsay; Keefe Robert	Development and Validation of a Physically Based Forest Operations Model	Model, Equipment, Simulation, Geospatial	P1	Wood supply chain management and decision support tools	Lindsay	Grayson	gray7728@vandals.uidaho.edu	University of Idaho	USA
302	Jean Favreau	Improved trucking logistics in Canada: Great savings but limited uptake	Fibre Flow, Transport Logistics, Value chain, Implementation	P1	Wood supply chain management and decision support tools	Jean	Favreau	Jean.Favreau@fpinnovations.ca	FPInnovations	Canada
61	Baker, Shawn; Greene, Dale	Logging Capacity Impacts to the US South, 2006-2012	capacity, logging industry, employment, equipment age	P2	Contractors and durable business	Shawn	Baker	shbaker3@uga.edu	University of Georgia	USA
70	Ottaviani Aalmo Giovanna; Baardsen Sjur; ...	Environmental Factors Affecting Technical Efficiency in Norwegian Steep Terrain	Steep terrain logging, Stochastic Frontier Analysis, Tower yarder productivity	P2	Forest operations: environmental concerns and natural hazards	Giovanna	Ottaviani Aalmo	gio@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
181	Westlund Karin, Jönsson Petrus, Andersson Gert, Flisberg Patrik, Rönnqvist Mikael	Reducing land damages using optimization for efficient logging planning	optimized logging trails, land damages, logging operations	P2	Forest operations: environmental concerns and natural hazards	Karin	Westlund	karin.westlund@skogforsk.se	Skogforsk	Sweden
15	Ersin DURSUN, H. Hulusi ACAR, Özgür GÖKSU	RECONSTRUCTION OF THE FOREST ROAD NETWORK MODEL IN THE CONVERSION OF THE COPPICE COMPANIES TO HIGH FOREST ENTERPRISES	Coppice Companies, High Forest Enterprises, Forest Road Network, modeling studies	P2	Forest roads and environment	Hafiz Hulusi	Acar	hlsacar@ktu.edu.tr	Blacksea Technical University, Faculty of Forestry	TURKEY
19	Sattar Ezzati; Akbar Najafi	Spatial Multi Criteria Decision Making for Estimating Environmental Costs of Road Management Activities	Forest road network, Fuzzy set theory, FHTOPSIS, FAHP, Hyrcanian forests	P2	Forest roads and environment	Akbar	Najafi	a.najafi@modares.ac.ir	Technical University in Zvolen	Slovakia
26	Turk Yilmaz; Gumus Selcuk; Ural Tarkan; Eker Remzi	Planning of Forest Roads with Plateia Software	Forest Roads, Plateia Software, Road Planning.	P2	Forest roads and environment	Yilmaz	Turk	yilmazturk@duzce.edu.tr	Faculty of Forestry, Duzce University	TURKEY
27	Turk Yilmaz	Construction Method of Forest Roads in Turkey	forest roads, construction method, Turkey	P2	Forest roads and environment	Yilmaz	Turk	yilmazturk@duzce.edu.tr	Faculty of Forestry, Duzce University	TURKEY
107	Ozturk Tolga	MISTAKE AND THEIR RESULTS TO POSITIONING AND SIZES OF DRAINAGE STRUCTURES AT FOREST ROADS	Forest road, drainage structure, culvert, pipe, cross section, positioning, size	P2	Forest roads and environment	Tolga	Ozturk	tozturk@istanbul.edu.tr	Istanbul University, Faculty of Forestry	TURKEY
136	Ozer, Cigdem; Aricak, Burak; Altunel, Arif Oguz; Enez, Korhan	A Methodological Approach to the Determination of Forest Roads' Technical Competence	Forest Roads, GIS, Variables	P2	Forest roads and environment	Cigdem	Ozer	cozer@kastamonu.edu.tr	Kastamonu University	TURKEY
137	AKGUL MUSTAFA 1;	Using 3D Real Time Cad Applications in New Road Planning and Reengineering Applications	Road Planning, 3D Real Time Cad Applications, Construction and earthworks cost	P2	Forest roads and environment	Mustafa	Akgül	makgul@istanbul.edu.tr	Istanbul University, Faculty of Forestry	TURKEY
171	ÇOBAN, H. Oğuz; EKER, Mehmet	GIS Based Strategy on Timber Transportation System in Mountainous Forest Regions	Transportation, forest road, GIS, road analysis, mountainous forest	P2	Forest roads and environment	H. Oğuz	ÇOBAN	oguzcoban@sdu.edu.tr	Süleyman Demirel University, Faculty of Forestry	TURKEY
184	Bjerketvedt Jan	Forest Road Standard Registration	forest roads, standard, LiDAR, GIS, GPS	P2	Forest roads and environment	Jan	Bjerketvedt	jan.bjerketvedt@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
188	Drosos Vasileios C.	Analysis of existing road network in order to plan and configure a rationally managed one in Greek mountainous area	management; improvement; forest road network	P2	Forest roads and environment	Vasileios	Drosos	vdrosos@fmenr.duth.gr	Democritus University of Thrace	Greece
191	Robert Keefe	Design of the phase two portable rail project track: a new system to minimize site disturbance in specialized forest operations and recreational applications	Portable rail project; handicap access, conveyor applications in forestry	P2	Forest roads and environment	Robert	Keefe	robk@uidaho.edu	University of Idaho	USA

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25	Klvac Radomir 1; Kleibl Miroslav 2; Tsioras Petros 3; Cesek Tomas 4	Evapo-transpiration as an accelerating tool for seasoning – A case study	Short Rotation Tree Species (SRTS), seasoning, evaporation, transpiration, thinning	P2	Fuelwood quality and moisture content management	Radomir	Klvac	klvac@mendelu.cz	Mendel University in Brno Faculty of Forestry and Wood Technology	Czech Republic
118	Grigolato Stefano; Sgarbossa Andrea; Zanetti Michela; Cosola Giulio; Cavalli Raffaele	Wood chips characterization for small boiler in the Italy	woodchips, fuel quality, chipping, European standard, forest biomass	P2	Fuelwood quality and moisture content management	Stefano	Grigolato	stefano.grigolato@unipd.it	University of Padova - TESAF Department	Italy
128	Spinelli Raffaele; Magagnotti Natascia	Long term performance of industrial chipping operations	Biomass; Energy; Black-Box; Comminution; Fuel	P2	Fuelwood quality and moisture content management	Raffaele	Spinelli	spinelli@ivalsa.cnr.it	CNR-IVALSA	Italy
11	Sánchez-García Sandra; Prendes Covadonga; Canga Elena; Majada Juan.	CREATION OF GEODATABASE USING GEOGRAPHICAL INFORMATION SYSTEMS (GIS): ITS INTEGRATION IN FOREST ROAD NETWORK AND APPLICATION IN CALCULATING BIOMASS SUPPLY CHAIN COSTS - CASE STUDY FROM NORTHERN SPAIN	Biomass supply, road network, GIS, Spain.	P2	Looking for efficient bioenergy supply chains	SANDRA	SÁNCHEZ GARCÍA	ssanchez@cetemas.es	CETEMAS (Forest and Wood Technology Research Centre)	Spain
78	Fernandez-Lacruz, R., Di Fulvio, F., Athanassiadis, D., Bergström, D. & Nordfjell, T.	Biomass potential from young-dense stands in Sweden and road hauling to industries	GIS analysis, early thinning, small tree, bioenergy, transport distance, wood fuel supply chain	P2	Looking for efficient bioenergy supply chains	Raul	Fernandez-Lacruz	raul.fernandez@slu.se	SLU	Sweden
82	Belbo Helmer; Talbot Bruce	Systems comparison of 10 supply chains for whole tree chips.	Biomass supply, forest energy, supply chain analysis, supply modelling	P2	Looking for efficient bioenergy supply chains	Helmer	Belbo	beh@skogoglandskap.no	Norwegian Forest and Landscape Institute	Norway
89	Nicolas Bilot, Meriem Fournier, Holger Wernsdörfer, Yann Rogaume	Simulation of forest energy chips provision chain from the stand to the heating plant – Characterisation of the energy efficiency and minerals exportation.	"Wood chips", "Forest management", "Forest mechanisation", "Energy balance", "Mineral exportation", "Forest residuals", "Simulation tool".	P2	Looking for efficient bioenergy supply chains	Nicolas	Bilot	nicolas.bilot@nancy.inra.fr	INRA Centre de nancy Lorraine	France
153	Asmoarp Victor	Evaluation of terminal strategies by flow optimization	Forest fuels, flow optimization, terminal, multi modal transportation	P2	Looking for efficient bioenergy supply chains	Victor	Asmoarp	victor.asmoarp@skogforsk.se	Skogforsk	Sweden
206	Matthias Dees, Eric Jessup	Feasibility of Adapting Existing Forestry Practices for Improved Biomass Production	Biomass, Harvest, Supply-Chain, Production Costs, Technology	P2	Looking for efficient bioenergy supply chains	Matthias	Dees	matthias.dees@felis.uni-freiburg.de	Albert-Ludwigs-Universität Freiburg	Germany
28	Arif Oguz Altunel, Oytun Emre Sakici, Burak Aricak, Cigdem Ozer	The Effectiveness of Topographic Earth Representations in Forest Engineering	DEM, forestry, harvest planning	P2	Operational uses of remote sensing technologies for logging operation	Arif Oguz	Altunel	aoaltunel@kastamonu.edu.tr	Kastamonu University	TURKEY
30	Erdem, Ramazan; Altunel, Arif Oguz; Erdin, Kadir	The Comparison of different GPS devices in Turkish forestry practices	GPS, spatial accuracy, forest boundary	P2	Operational uses of remote sensing technologies for logging operation	Ramazan	Erdem	rerdem@kastamonu.edu.tr	Kastamonu University	TURKEY
163	Naghdi Ramin; Ghajar Ismael; AbasianAbdollah	Modeling the landslide susceptibility of a mountainous forest using Artificial Neural Network	risk assessment; ANN, frequency ratio, neuron, hidden layer	P2	Operational uses of remote sensing technologies for logging operation	Ramin	Naghdi	rnaghdi@guilan.ac.ir	Department of Forestry, Faculty of Natural Resources, University of Guilan	Iran
51	Fründ H.C., Averdiek A., Kohn C., Müller-Inkmann M., Hemker O., von Dressler H., Gaertig T.	Skidding tracks as forest infrastructure – promoting natural regeneration processes with regard to economic and ecological issues	: Harvesting, soil compaction, soil protection, soil regeneration, management of skidding tracks	P2	Trafficability practices and understanding of forest soil characteristics	Heinz-Christian	Fründ	hc.fruend@hs-osnabrueck.de	Hochschule Osnabrück University of Applied Sciences	Germany
123	Sven Pasemann, Heribert Jacke, Jörg Hittenbeck	Influence of wheel load and wheel slip on rutting in forest operations	rutting, wheel slip, wheel load	P2	Trafficability practices and understanding of forest soil characteristics	Sven	Pasemann	sven.pasemann@forst.thuringen.de	ThüringenForst	Germany
149	Lamminen Sami; Väätäinen Kari; Ala-Illomäki Jari; Sirén Matti; Asikainen Antti	LoggingMap – concept for better planning of logging trail network in rough terrain conditions	Logging trail planning, harvesting, GIS,	P2	Trafficability practices and understanding of forest soil characteristics	Sami	Lamminen	sami.lamminen@metla.fi	METLA	Finland

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Contributions

ID	Authors	Title of the contribution	Keywords	Session	THEME	First Name	Family name	E-mail	Affiliation	Country
197	Lazdina Dagnija, Lazdins Andis	Wet and dryed forest site regeneration by mounding in Latvia	planting, mound, soil preparation	P2	Trafficability practices and understanding of forest soil characteristics	Dagnija	Lazdina	dagnija.lazdina@gmail.com	LSFRI Silava	Latvia
202	Demir Murat	Why does not increase the level of forest mechanization in Turkey? Problems, Solutions and Opportunities	Forest mechanization, Forest harvesting, Timber transportation, Turkey	P2	Workforce training and skills developments	Murat	Demir	mdemir@istanbul.edu.tr	Istanbul University, Faculty of Forestry	TURKEY
207	Vincent Morillon, Matthieu Bonnemazou	ExploTIC: a progressive implementation through training and collective dialogue	Wood supply chain, ICT deployment, StanForD data exchange, Harvester data, France.	P2	Workforce training and skills developments	Vincent	Morillon	vincent.morillon@fcba.fr	FCBA	France
K1	Magnus Thor	Prospects and Challenges for Forest Harvesting technologies in Europe		Plenary	Keynote	Magnus	Thor	magnus.thor@skogforsk.se	Skogforsk	Sweden
K2	Nathalie Fabbe-Costes	Collaborative logistics: improving business relationships and supply chain visibility to propel the forest value chain		Plenary	Keynote	Nathalie	Fabbe-Costes	nathalie.fabbe-costes@univ-amu.fr	CRET-LOG Aix-Marseille University	France
K3	Woodam Chung	Forest Ecosystem Management Issues and Opportunities in the United States		Plenary	Keynote	Woodam	Chung	Woodam.Chung@oregonstate.edu	Oregon State University	USA
K4	Marcos Wichert	Insights on the changes operated in forest value-chain management in South America		Plenary	Keynote	Marcos Cesar Passos	Wichert	marcos.wichert@fibria.com.br	FIBRIA Pulp - Forestry Operations	Brazil
152	Lindroos, Ola; de Hoop, Cornelis N.; Pyles, Marvin R.; Zundel, Pierre; Rickards, Jeremy	25 years of International Journal of Forest Engineering	Development, scientific journal, peer-review, research, publication, editor, history, future.	Plenary	Plenary	Ola	Lindroos	ola.lindroos@slu.se	SLU	Sweden
161	sous total									