

PERSONAL INFORMATION

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PUBLICATIONS LIST

(a) International peer-reviewed scientific journal articles

- [1]. Cha J.; Mologni O.; Moonen R.; Roeser D. (2026). *Forestry workers' perceptions on occupational safety: a comparative study of British Columbia and South Korea*. International Journal of Forest Engineering, 37(1), 12-24. [DOI](#)
- [2]. Lahrsen S., Mologni O., Liu Z., Roeser D. (2024). *Preliminary validation of automated production analysis of feller buncher operations: integration of onboard computer data with LiDAR inventory*. European Journal of Forest Research 143: 1819-1833. [DOI](#)
- [3]. Marchi L., Mologni O., Byrne K., Grigolato S., Roeser D. (2024). *Cyclic loading effects and stability assessment of trees and stumps used as anchors in cable yarding operations*. European Journal of Forest Research 143: 1593-1609. [DOI](#)
- [4]. Mologni O., Lahrsen S., Roeser D. (2024). *Automated production time analysis using FPDat II onboard computers: A validation study based on whole-tree ground-based harvesting operations*. Computers and Electronics in Agriculture, 222(2024) 109047: 12 p. [DOI](#)
- [5]. Lahrsen S., Mologni O., Magalhães J., Grigolato S., Roeser D. (2022). *Key factors influencing productivity of whole tree ground-based felling equipment commonly used in the Pacific Northwest*. Canadian Journal of Forest Research, 52(4): 450-462. [DOI](#), [full-text](#)
- [6]. Cadei A., Mologni O., Marchi L., Sforza F., Roeser D., Cavalli R., Grigolato S. (2021). *Energy efficiency of a hybrid cable yarding system: A case study in the North-Eastern Italian Alps under real working conditions*. Journal of Agricultural Engineering, 52(1185). 10 p. [DOI](#), [full-text](#)
- [7]. Mologni O., Nance E.D.T., Lyons C. K., Marchi L., Grigolato S., Cavalli R., Roeser D. (2021). *Cable Tensile Forces Associated to Winch Design in Tethered Harvesting Operations: A Case Study from the Pacific North West*. Forests, 12(7), 827: 15 p. [DOI](#)
- [8]. Mologni O., Lyons C.K., Marchi L., Amishev D., Grigolato S., Cavalli R., Roeser D. (2021). *Assessment of cable tensile forces in active winch-assist harvesting using an anchor machine configuration*. European Journal of Forest Research, 140: 745-759. [DOI](#)
- [9]. Mologni O., Marchi L., Lyons C.K., Grigolato S., Cavalli R., Roeser D. (2021). *Skyline tensile forces in cable logging: field observations vs. software calculations*. Croatian Journal of Forest Engineering, 42(2): 227-243. [DOI](#), [full-text](#)
- [10]. Marchi L., Trutalli D., Mologni O., Gallo R., Roeser D., Cavalli R., Grigolato S. (2020). *Mechanical response of natural anchors in cable logging*. International Journal of Forest Engineering, 32(1): 29-42. [DOI](#)
- [11]. Cadei A., Mologni O., Roeser D., Cavalli R., Grigolato S. (2020). *Forwarder productivity in salvage logging operations in difficult terrain*. Forests, 11(3), 341: 14 p. [DOI](#)
- [12]. Marchi L., Mologni O., Trutalli D., Scotta R., Cavalli R., Montecchio L., Grigolato S. (2019). *Safety assessment of trees used as anchors in cable-supported tree harvesting based on experimental observations*. Biosystems Engineering, 186: 71-82. [DOI](#)

- [13]. Mologni O., Lyons C.K., Zambon G., Proto A.R., Zimbalatti G., Cavalli R., Grigolato S. (2019). *Skyline tensile force monitoring on mobile tower yarders operating in the Italian Alps*. European Journal of Forest Research, 138(5): 847-862. [DOI](#)
- [14]. Marchi L., Grigolato S., Mologni O., Scotta R., Cavalli R., Montecchio L. (2018). *State of the art on the use of trees as anchorages in forest operations*. Forests, 9(8), 467: 17 p. [DOI](#)
- [15]. Mologni O., Dyson P., Amishev D., Proto A.R., Zimbalatti G., Cavalli R., Grigolato S. (2018). *Tensile force monitoring on large winch-assist forwarders operating in British Columbia*. Croatian Journal of Forest Engineering, 39(2): 193-204. [Link](#), [full-text](#)
- [16]. Grigolato S., Mologni O., Proto A.R., Zimbalatti G., Cavalli R. (2018). *Assessment of noise level and noise propagation generated by light-lift helicopters in mountain natural environments*. Environmental Monitoring and Assessment, 190(88): 12 p. [DOI](#)
- [17]. Grigolato S., Mologni O., Cavalli R. (2017). *GIS applications in forest operations and road network planning: an overview over the last two decades*. Croatian Journal of Forest Engineering 38(2): 175-186. [Link](#), [full-text](#)
- [18]. Mologni O., Grigolato S., Cavalli R. (2016). *Harvesting systems for steep terrain in the Italian Alps: state of the art and future prospect*. Contemporary Engineering Sciences, 9(25): 1229-1242. [DOI](#), [full-text](#)
- [19]. Marinello F., Pezzuolo A., Simonetti A., Grigolato S., Boscaro D., Mologni O., Gasparini F., Cavalli R., Sartori L. (2015). *Tractor cabin ergonomics analyses by means of Kinect motion capture technology*. Contemporary Engineering Sciences, 8(28): 1339-1349. [DOI](#), [full-text](#)

(b) Conference proceedings

- [1]. Cadei A., Marchi L., Mologni O., Cavalli R., Grigolato S. (2021) *Evaluation of wood chipping efficiency through long-term monitoring*. Environmental Science Proceedings, 3(1) 17: 7 p. [DOI](#)
- [2]. Cadei A., Mologni O., Proto A. R., D'anna G., Grigolato S. (2020). *Using high-frequency accelerometer to detect machine tilt*. In Proceeding of ERDev 2020- 19th International scientific conference "Engineering for Rural Development". Volume 19: 1865-1870. May 20-22. Jelgava, Latvia. [Full-text](#)
- [3]. Marchi L., Mologni O., Grigolato S., Cavalli R. (2020). *Evaluation on the stability of tree used as anchors in cable yarding operations: a preliminary test based on low-cost MEMS sensors*. In: Coppola A., Di Renzo G., Altieri G., D'Antonio P. (eds) Innovative Biosystems Engineering for Sustainable Agriculture, Forestry and Food Production: 473-479. MID-TERM AIIA 2019. Lecture Notes in Civil Engineering, vol 67. [DOI](#)
- [4]. Cadei A., Mologni O., Grigolato S., Cavalli R. (2019). *Mechanized harvesting operations in windthrow damaged stands: a case study in the Northeast Italy*. In: Proceedings of FORMEC 2019 - 52nd International symposium of forest mechanization "Exceeding the vision: forest mechanization of the future": 591-598. Oct 6-9. Sopron, Hungary / Forchtenstein, Austria. [Full-text](#)
- [5]. Talbot B., Mologni O., Astrup R., Eisner S. (2019). *A micro-catchment approach to monitoring sediment flows after cable logging*. In: Proceedings of FORMEC 2019 - 52nd International symposium of forest mechanization "Exceeding the vision: forest mechanization of the future": 19-20. Oct 6- 9. Sopron, Hungary / Forchtenstein, Austria. [Full-text](#)
- [6]. Lezier, A., Cadei, A., Mologni, O., Marchi, L., Grigolato, S. (2019). *Development of a device based on open-source electronics platform for monitoring of cable-logging operations*. In Proceeding of ERDev 2019- 18th International scientific conference "Engineering for Rural Development". Volume 18: 72-74. May 22-24. Jelgava, Latvia. [link](#)
- [7]. Grigolato S., Mologni O., Proto A. R., Zimbalatti G., Cavalli R. (2016). *Propagation of noise generated by light-lift helicopters in natural environments: a case study in the Italian Alps*. In Proceedings of FORMEC 2016 - 49th International symposium on forest mechanization "From theory to practice: challenges for forest engineering". Sep 4-7. Warsaw, Poland. pp 211- 215. [Full-text](#)
- [8]. Proto A.R., Grigolato S., Mologni O., Macri G., Zimbalatti G., Cavalli R. (2016). *Modelling noise propagation generated by forest operations: a case study in southern Italy*. In Proceeding of ISTH 2020- 2nd International symposium "New metropolitan perspectives"- Strategic planning, spatial planning, economic programs and decision support tools, through the implementation of Horizon/Europe2020". May 18-20. Reggio Calabria, Italy. Procedia- Social and Behavioral Sciences 223: 841-848. [DOI](#)

(c) Technical reports and articles

- [1]. Mologni O. (2022). *Assessment of anchor stability in cable yarding. Case studies from coastal B.C.* Technical Report No. 7: 25p. FPInnovations, Vancouver BC, Canada.
- [2]. Mologni O. (2021). *Synthetic rope use in grapple yarding. First implementation results*. Info Note No. 23: 4p. FPInnovations, Vancouver, BC, Canada.
- [3]. Mologni O., Jokai R. (2020). *Harvesting with a Falcon Winch Assist. Summary of cable tensile forces assessment*. Info Note No. 13: 4p. FPInnovations, Vancouver BC, Canada.
- [4]. Mologni O., Jokai R. (2020). *Cable tensile forces in winch-assist harvesting. Assessment of a Falcon Winch Assist machine tethering a track feller-director*. Technical Report No. 41: 20p. FPInnovations, Vancouver BC, Canada.
- [5]. Mologni O., Koszman C. (2020). *Evaluation of synthetic ropes for cable logging and potential applications in grapple yarding*. Info Note No. 11: 4p. FPInnovations, Vancouver BC, Canada.
- [6]. Mologni O., Jokai R. (2019). *Automated data acquisition for cable tension monitoring in winch-assisted harvesting*. Info Note No. 22: 5p. FPInnovations, Vancouver BC, Canada.
- [7]. Marchi L., Mologni O., Cadei A., Cavalli R., Montecchio L. Grigolato S. (2019). *Ancoraggio delle funi portanti nelle gru a cavo forestali. Test di resistenza e analisi del comportamento meccanico*. Sherwood, 243: 21-25.
- [8]. Mologni O., Cadei A., Lyons C.K., Zambon G., Marchi L., Proto A.R., Cavalli R., Grigolato S. (2019). *Sollecitazioni nelle gru a cavo. Picchi di tensione e amplificazioni dinamiche delle funi portanti*. Sherwood, 242: 21-25.
- [9]. Mologni O., Cadei A., Grigolato S. (2019). *Utilizzazioni forestali in popolamenti schiantati. Meccanizzazione delle operazioni con harvester e forwarder (ITA)*. Tecniko & Pratiko, 141: 4-6.
- [10]. Dyson P., Mologni O. (2018). *Productivity and cable tension assessments of three winch-assisted harvesters and forwarders*. Technical Report No. 41: 17p. FPInnovations, Vancouver BC, Canada.
- [11]. Mologni O., Brancher F., Grigolato S. (2018). *Forwarder per ambienti alpini. L'esperienza consolidata di una realtà veneta*. Tecniko & Pratiko, 134: 6-8.
- [12]. Mologni O., Grigolato S. (2017). *Gru a cavo combinata con processore. Integrazione tecnologica per l'efficientamento delle utilizzazioni forestali*. Tecniko & Pratiko, 130: 6-8.
- [13]. Mologni O., Antonioli S., Grigolato S., Cavalli R. (2017). *Gru a cavo nelle Alpi Centrali. Caratteristiche delle linee e osservazioni sui tempi di montaggio e smontaggio*. Sherwood, 211: 7-11.
- [14]. Mologni O., Grigolato S. (2017). *TrentinoRope. Funi e foreste, un feeling spontaneo*. Tecniko & Pratiko, 127: 6-7.
- [15]. Mologni O., Grigolato S. (2017). *Esbosco con gru a cavo a stazione motrice mobile con ritto installate su autocarro. L'esperienza consolidata di una ditta trentina*. Tecniko & Pratiko, 125: 6-8.
- [16]. Canzan L., Grigolato S., Comiti F., Mologni O., Barito F., Dazzi S. (2016). *Studio relativo alla filiera bosco-legno-energia nei territori della Unione Montana Agordina*. Unione Montana Agordina. Agordo, Italy: 66 p.
- [17]. Mologni O., Grigolato S. (2016). *Carrello motorizzato con fune di sollevamento indipendente. Un "Tigre" nei cieli della Val di Fiemme*. Tecniko & Pratiko, 122: 6-8.
- [18]. Mologni O., Grigolato S. (2016). *Allestimento meccanizzato sulle alpi italiane. Un Highlander in provincia di Trento*. Tecniko & Pratiko, 120: 9-11.
- [19]. Mologni O., Grigolato S. (2016). *Esbosco aereo con gru a cavo. Ditta trentina specializzata su lunghe distanze*. Tecniko & Pratiko, 118: 6-8.
- [20]. Mologni O., Grigolato S. (2015). *Esbosco terrestre a strascico. Uno skidder a Cortina d'Ampezzo*. Tecniko & Pratiko, 116: 4-6.
- [21]. Mologni O., Grigolato S. (2015). *Esbosco a fune con gru a cavo. L'esperienza di una ditta specializzata in Trentino*. Tecniko & Pratiko, 115: 6-8.
- [22]. Mologni O., Grigolato S. (2015). *Cippatrice installata su autocarro. Esperienza in provincia di Bergamo*. Tecniko & Pratiko, 114: 12-14.
- [23]. Grigolato S., Mologni O. (2015). *Testa abbattitrice-allestitrice su "ragno". L'esperienza di un'impresa forestale in Cadore*. Tecniko & Pratiko, 113: 10-12.
- [24]. Mologni O., Cavalli R. (2015). *Gru a cavo nelle imprese forestali lombarde*. Sherwood, 211: 11-15.

(d) Thesis and dissertations

- [1]. Mologni O. (2019). *Cable tensile force monitoring in steep slope forest operations*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Prof. Raffaele Cavalli. LERH Doctoral Program, University of Padova (Legnaro, Italy). [Link](#)
- [2]. Mologni O. (2014). *Valutazione dell'impiego dei sistemi di esbosco a fune nelle imprese boschive lombarde [Assessment of cable yarding systems used by logging contractors in the Lombardy Region]*. Supervisor: Prof. Raffaele Cavalli. MSc Forest and Environmental Sciences, University of Padova (Legnaro, Italy).
- [3]. Mologni O. (2012). *Filiere corte per l'approvigionamento di impianti a biomasse legnose: analisi preliminare di due casi studio in Val Seriana [Short supply chains for wood biomass energy plants: a preliminary analysis of two case studies in Val Seriana]*. Supervisor: Prof. Davide M. Pettenella; co-supervisor: Dr. Mauro Masiero. BSc Forest and Environmental Technologies, University of Padova (Legnaro, Italy).

(e) Supervised thesis and dissertations

- [1]. Cadei A. (2023). *The eco-efficiency of salvage logging and wood transportation logistics in complex scenarios and the role of primary and secondary road networks on the carbon balance*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. LERH Doctoral Program, University of Padova (Legnaro, Italy).
- [2]. Capuzzo J. (2020). *Valutazione dell'efficienza di macchine a trazione assistita tramite analisi video. [Analysis of winch-assist harvesting efficiency by means of video analysis]*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. BSc Forest and Environmental Technologies, University of Padova (Legnaro, Italy).
- [3]. Cadei A. (2019). *Meccanizzazione avanzata nei cantieri di recupero legname danneggiato da schianti a seguito della tempesta Vaia. Alcuni casi studio sulle Alpi Nord-Orientali [Advanced mechanization for savage logging of stands damaged by the Vaia storm. Case studies on the North-Eastern Alps]*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. MSc Forest and Environmental Sciences, University of Padova (Legnaro, Italy).
- [4]. Zambon G. (2018). Monitoraggio delle tensioni delle funi portanti nei sistemi di gru a cavo a stazione motrice mobile operanti sull'arco alpino italiano *[Skyline tensile force monitoring of mobile tower yarders operating in the Italian Alps]*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. MSc Forest and Environmental Sciences, University of Padova (Legnaro, Italy).
- [5]. Buffa M. (2017). *Indagine preliminare sull'applicazione di un sistema a installazione rapida per la misura delle tensioni della fune portante di gru a cavo a stazione motrice mobile [Preliminary analysis on applicability of a clamp-on measurement system for skyline tensile force monitoring of mobile tower yarders]*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. BSc Forest and Environmental Technologies, University of Padova (Legnaro, Italy).
- [6]. Guerra F. (2017). *Monitoraggio di medio periodo di cantieri forestali con gru a cavo tramite sistemi gps [Medium-term monitoring of cable logging harvest sites through GPS systems]*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. BSc Forest and Environmental Technologies, University of Padova (Legnaro, Italy).
- [7]. Lezier A. (2016). *Sviluppo e applicazione di uno strumento per il rilievo automatico dei tempi di lavoro nelle operazioni di esbosco con gru a cavo [Development and application of a tool for the automatic measurement of working time in cable logging operations]*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. MSc Forest and Environmental Sciences, University of Padova (Legnaro, Italy).
- [8]. Bocchio M. (2015). *Diffusione del rumore nell'esbosco con elicottero: un caso di studio in Val Belluna [Noise diffusion due to helicopter logging: a case study in Val Belluna]*. Supervisor: Prof. Stefano Grigolato; co-supervisor: Dr. Omar Mologni. MSc Forest and Environmental Sciences, University of Padova (Legnaro, Italy).

(f) Posters

- [1]. Cadei A., Mologni O., Cavalli R., Grigolato S. (2019). *Mechanized harvesting operation in windthrow damaged stands: a case study in the Northeast Italy*. FORMEC 2019- 52 International symposium of forest mechanization "Exceeding the vision: forest mechanization of the future". Oct 6-9. Sopron, Hungary / Forchtenstein, Austria.
- [2]. Grigolato S., Mologni O., Proto A.R., Zimbalatti G., Cavalli R. (2018). *Assessment of noise level and noise propagation generated by light-lift helicopters in mountain natural environments*. IV Congresso Nazionale di Selvicoltura "Il Bosco: bene indispensabile per un presente vivibile e un future possibile". Nov 5-9. Turin, Italy.

- [3]. Mologni O., Grigolato S., Cavalli R. (2016). *Steep slope harvesting systems: eco-efficiency analysis in the overlap area of conventional cable-based systems and innovative ground-based systems*. 1st IUFRO Division 3 Doctoral Student Conference "Connecting knowledge and minds". Aug 29- Sep 2. Corvallis, OR (US).
- [4]. Mologni O., Grigolato S., Cavalli R. (2016). *Steep slope harvesting systems: eco-efficiency analysis in the overlap area of conventional cable-based systems and innovative ground-based systems*. MechTech2016 Meccanizzazione e tecnologie per il controllo e la sostenibilità dei sistemi agricoli e forestali. May 29- Jun 1. Alghero, Italy.
- [5]. Mologni O., Grigolato S., Cavalli R. (2015) *Professional capability of forest enterprises in operating cable yarders in the Italian Central Alps*. FORMEC 2015- 48 International symposium on forestry mechanization "Forest engineering: making a positive contribution". October 4-8. Linz, Austria.
- [6]. Lautar I., Tepšič T., Spinazzè A., Marconcini L., Mologni O., Pasqualotto G., Gottardi V., Vacaru C.P. (2013). *Proposal of forest road re-engineering in the area of private and community forest in Jezersko (Slovenia)*. FORMEC 2013- 46 International symposium on forestry mechanization "Techniques for sustainable management". Sep 30- Oct 2. Stralsund, Germany.

(g) Conference and workshop presentations (in case of co-authored presentation, underlined the presenter)

- [1]. FORMEC 2025 – 57th International Symposium on Forestry Mechanization "Harnessing Novel Technologies to Execute Sustainable and Low-Carbon Wood Supply." June 9-13, Joensuu, Finland:
 - a. Sloan M., Röser D., Sikanen L., Liu M., Mologni O., Kärhä K. (2025). *Thinning quality of different cut-to-length scenarios in Central British Columbia's Cariboo Region*.
 - b. Nicorescu A., Mologni O., Roeser D. (2025) *Evaluating air curtain burners as a sustainable alternative to slash-pile burning in British Columbia*.
- [2]. Roeser D., Mologni O., Stoltz M. (2024). *Partial harvesting in British Columbia: a feasibility study on conventional whole-tree and cut-to-length ground-based operations*. COFE 2024 "The future of forest operations". May 21-24, Moscow (ID), US.
- [3]. Mologni O., Lahrsen S., Roeser D. (2023). *Production analyses of winch-assist harvesting operations*. COFE-FETEC 2023- "Forest operations: a tool for forest management". May 23-25. Flagstaff (AZ), US.
- [4]. FORMEC-FEC 2023- Joint 55th International Symposium on Forestry Mechanization and 7th Forest Engineering Conference "Improving access to sustainable forest materials in a resource-constrained world." Sep 20-22. Florence, Italy:
 - a. Mologni O., Lahrsen S., Roeser D. (2023). *Full-automatic production analysis of winch-assist harvesting operations based on anchor machine configurations*.
 - b. Lahrsen S., Mologni O., Roeser D. (2023). *Feller-buncher production: validation of an integrated solution based on FPData on-board computer systems and forest inventories*.
 - c. Stoltz M., Mologni O., Roeser D. (2023). *Minimum optimum recording frequency in tensile force monitoring of winch-assist harvesting operations*.
- [5]. COFE-FORMEC-IUFRO 2022 - Joint 44th Annual Meeting of Council on Forest Engineering, 54th International Symposium on Forest Mechanization and 2022 IUFRO All-Division 3 Meeting "One big family: shaping our future together." Oct 4-7. Corvallis (OR), US:
 - a. Euler-Rolle M., Mologni O., Lahrsen S., Röser D., Stampfer K., Gollob C. (2022). *Analysis of grapple yarding operations using on-board computer systems in British Columbia*.
 - b. Lahrsen S., Mologni O., Röser D. (2022). *Skidder production: an integrated solution based on FPData on-board computer systems and lidar-based enhanced forest inventories*.
 - c. Marchi L., Zanotto F., Mologni O., Grigolato S. (2022). *A multiple sensor-based approach to assess the tensile forces distribution and stability of a spar tree*.
 - d. Mologni O., Lahrsen S., Röser D. (2022). *An integrated approach for production performance analyses of winch-assist harvesting in Western Canada*
- [6]. Mologni O. (2022). *Improving cable yarding. Synthetic rope applications and anchor stability analysis*. FPIInnovations Research information sharing and feedback - Forest Operations Program 2021-2022. Jan 26, web conference.

- [7]. COFE-FORMEC 2021- Joint 43rd annual meeting of the Council on Forest Engineering and 53rd International Symposium on Forest Mechanization "Forest Engineering family - growing forward together". Sep 23-30, web conference:
- a. Cadei A., Mologni O., Roeser D., Cavalli R., Grigolato S. (2021). *Energy efficiency, fuel consumption, and productivity of cable yarding operations using hybrid tower yarder and electrical carriage in the North-Eastern Italian Alps.*
 - b. Lahrsen S., Magalhaes J., Mologni O., Roeser D. (2021). *Key factors influencing productivity of whole tree ground-based felling equipment.*
 - c. Magalhaes J., Mologni O., Moioli C., Lahrsen S., Nance E., Axelson J., Byrne K., Sikanen L., Leskinen L., Salminen H., Roeser D. (2021). *Comparative analysis of commercial thinning operations in BC and other jurisdictions.*
 - d. Marchi L., Mologni O., Nance E., Roeser D., Cavalli R., Grigolato S. (2021). *Stability assessment of natural anchors for swing yarders in Coastal British Columbia.*
 - e. Mologni O., Lyons C.K., Nance E., Marchi L., Amishev D., Grigolato S., Cavalli R., Roeser D. (2021). *Cable tensile forces in active winch-assist harvesting. Two case studies from the Pacific Northwest.*
- [8]. Mologni O. (2020). *Assessing cable tensile forces in winch-assist harvesting: a Falcon Winch Assist case study.* FPIInnovations Research information sharing and feedback - Forest Operations Program 2020-2021. Jun 23, web conference.
- [9]. FORMEC 2019 - 52nd International symposium of forest mechanization "Exceeding the vision: forest mechanization of the future". Oct 6-9. Sopron, Hungary / Forchtenstein, Austria:
- a. Marchi L., Mologni O., Grigolato S., Cavalli R. (2019). *Experimental tests to assess safety on trees used as anchors in cable yarding operations.*
 - b. Mologni O., Marchi L., Lyons C.K., Grigolato S., Cavalli R., Roeser D. (2019). *Skyline tensile forces in cable logging: field measurement vs. theoretical calculations.*
 - c. Talbot B., Mologni O., Astrup R., Eisner S. (2019). *A micro-catchment approach to monitoring sediment flows after cable logging.*
- [10]. Cavalli R., Mologni O. (2019). *Forest operations in mountainous areas: a challenging question.* XXV IUFRO World Congress "Forest research and cooperation for sustainable development". Sep 29- Oct 5. Curitiba, Brazil.
- [11]. Grigolato S., Marchi L., Mologni O., Cavalli R., (2019). *Evaluation on the stability of tree used as anchors in cable yarding operations: a preliminary test based on low-cost MEMS sensors.* International Mid-Term AlIA Conference 2019 "Biosystem Engineering for sustainable agriculture, forestry and food production". Sep 13. Matera, Italy.
- [12]. Grigolato S., Mologni O., Cavalli R., (2018). *Università incontra tecnici e studenti. Recenti sviluppi e prospettive della meccanizzazione delle utilizzazioni forestali in terreni pendenti (ITA).* EIMA International 2018. Nov 6-11. Bologna, Italy.
- [13]. Grigolato S., Mologni O., Marchi L., Montecchio L., Cavalli R., (2018). *The expanding of the cable-based harvesting systems and the use of trees as supports and anchors.* IV Congresso Nazionale di Selvicoltura "Il Bosco: bene indispensabile per un presente vivibile e un future possibile". Nov 5-9. Turin, Italy.
- [14]. FORMEC 2018 – 51st International symposium on forestry mechanization "Improved forest mechanisation: mobilizing natural resources and preventing wildfires". Sep 25-27. Madrid, Spain:
- a. Mologni O., Zambon G., Lyons C.K., Proto A.R., Zimbalatti G., Cavalli R., Grigolato S. (2018). *Skyline tensile force monitoring on mobile tower yarders in the Italian Alps.*
 - b. Mologni O., Dyson P., Amishev D., Proto A.R., Zimbalatti G., Cavalli R., Grigolato S. (2018). *Tensile force monitoring on large winch-assist forwarders operating in British Columbia.*
- [15]. Mologni O. (2018). *EUTR - Novità in materia di regolamento e controlli (Italian).* Annual assembly of the regional association of Lombard logging companies (AIBO). Jun 17. Barzio, Italy.
- [16]. Mologni O. (2018). *Skyline tension monitoring of cable yarding systems working in the Italian Alps (Italian).* Workshop for PhD students and early-stage researchers in wood technology and forest operations enrolled in Italian research bodies "Added value of wood in the future". February 27. Florence, Italy.
- [17]. Steep terrain and winch-assist workshop MoFLNRO. Nov 29. Port McNeill, BC (Canada):
- a. Mologni O. (2017). *European winch-assist system and BC applications.*
 - b. Mologni O. (2017). *Forestry in Europe and the cable harvesting system.*

- [18]. Mologni O. (2016). *Steep slope harvesting systems: eco-efficiency analysis in the overlap area of conventional cable-based systems and innovative ground-based systems*. 1st IUFRO Division 3 Doctoral Student Conference "Connecting knowledge and minds". Aug 29- Sep 2. Corvallis, OR (US).
- [19]. Pra A., Marchi N., Mologni O. (2016). *Quattro miti da sfatare sulle nostre foreste* (Italian). Notte Bianca del Liviano. May 11. Padua, Italy.
- [20]. Mologni O. (2014). *Valutazione dell'impiego dei sistemi di esbosco a fune nelle imprese forestali lombarde* (Italian). Presentation of the annual report on the status of the regional forestry sector. Dec 17. Milan, Italy.