

CURRICULUM VITAE



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Position: Associate Professor

EDUCATION

Ph.D. in Forest Engineering, Tarbiat Modares University, 1998-2004.

Thesis title: Comparative Study of Tree Length and Assortment Logging Methods for Determination of Suitable Forest Road Network in Neka-Zalemroud Region.

M.Sc. in Forest Engineering, Tehran University, 1993-1996.

Thesis title: Productivity And Cost Analysis of Skidding with Timberjack 450C Wheeled Skidder in Two Skidding Directions (Uphill and Downhill).

B.S. in Forestry, University of Gorgan, 1987-1991.

Project title: Preparation of forest management plan for Shastkola forest in northern Iran

PROFESSIONAL EXPERIENCES

- - Visiting student in Swedish University of Agricultural Sciences (SLU)-Umea-Sweden. 2003-2004
- - Sabatical in Albert Ludwigs University of Freiburg – Freiburg - Germany.2006
- - Assistant professor University of Guilan, Iran 2004-2010
- -Associate Professor University of Guilan, Iran, (Since /2010)

RESEARCH INTEREST

- Forest roads network planning
- Harvest scheduling
- Forest operations
- Forest Hydrology
- Assessment of Forest Soil Disturbance

DIRECTOR OF RESEARCH PLAN:

- Assessing the effects of various systems of wood extraction from forests on soil physical, chemical and micromorphological properties and regeneration in northern forest of Iran.
- The comparison of various grass land's impact on flood risk and river.
- Evaluation of Density and Distribution Efficiency of Forest Roads Network for Logging Operation at Shafaroud Forest Company in Guilan Province.
- Evaluation of Forest Damages due to Harvesting Machinery Operations in the Current Skidding Routes and Proposing Optimal Skidding Routes in Shafaroud Forests.
- Evaluation the Effectiveness of Mechanization on Soil Physical Properties and Regeneration in Guilan Province.
- Land Use Planning For Guilan Province.

PUBLICATIONS

1. **Naghdi, R.**, Dalir, P., Gholami, V. and Pourghasemi, H. R. 2017. Modeling of sediment generation from forest roads employing SEDMODL and its calibration for Hyrcanian forests in northern Iran. **Environmental Earth Sciences**. DOI :10.1007/s12665-017-6758-7. Accepted.
2. Babapour, R., **Naghdi, R.**, Ghajar, I. and Ghodsi, R. 2017. New strategies for estimation of cut and fill areas in road design with different ground cross-section offsets. **Scandinavian Journal of Forest Research**. DOI: 10.1080/02827581.2017.1338748. Accepted.
3. Masumian, A., **Naghdi, R.**, Zenner, E. 2017. Effectiveness of water diversion and erosion control structures on skid trails following timber harvesting. **Ecological Engineering**, 105: 370–378.
4. Abasian, A, **Naghdi, R** and Ghajar, I. 2017. Planning a single forest road based on artificial neural network model of landslide susceptibility (case study: Kojour watershed). **Journal of Forests and wood products**. Accepted(in Persian).
5. **Naghdi, R**, Bonyad, A and Mobasher Amini, A. 2017. Road effect on diameter growth of trees in Caspian forests of Iran. **Caspian J. Env. Sci**. Vol .15, No. 1, 47-55.
6. Solgi, A, **Naghdi, R**, Tsioras, P, Ilstedt, U, Salehi, A and Nikooy, M. 2017. Combined effects of skidding direction, skid trail slope and traffic frequency on soil disturbance in north mountainous forest of Iran. **Croatian Journal of Forest Engineering**. Volume 38, Issue 1, pp 97- 106.
7. **Naghdi, R**, Solgi, A, Labelle, E and Nikooy, M. 2017. The combined effects of soil texture and machine operating trail gradient on changes in soil physical properties during ground-based skidding. **Pedosphere**. Accepted (in press).

8. **Naghdi, R**, Solgi, A and Zenner, E. and Keivan Behjou, F. 2017. Soil physical properties degrade further on skid trails in the year following the termination of skidding operations. **Journal of Forestry Research**. doi:10.1007/s11676-017-0413-8.
9. Babapour, R, **Naghdi, R**, Ghajar, I and Mozaffari, S. 2016. A heuristic model for determining cut and fills areas for road designing in different offsets of ground cross section. **Iranian Journal of Forest and Poplar Research**. Vol. 24 No. 2. 189-199. (in Persian).
10. Hagh Sheno, R, **Naghdi, R** and Nikooy, M. 2016. Aesthetic evaluation of forest road templates (Case study: Shafarood forest, Guilan province). **J. of Wood & Forest Science and Technology**, Vol. 23 (3), pp 165-180. (in Persian).
11. **Naghdi, R**, Nikooy, M, Ghajar, I and Ershadifar, M. 2016. A Practical Linear Model for Estimation of Tree Falling Direction Error in Mountainous Forests of Northern Iran. **ECOPERSIA**. Volume 4, Issue 3, pp 1505- 1516.
12. Pourbabaei, H, **Naghdi, R**, Hidari, M and Noori, M. 2016. Investigation of regeneration and vegetation composition in the edge of forest roads. **Journal of Forests and wood products**. Volume 69, No. 1, pp 87-96. (in Persian).
13. **Naghdi, R**, Solgi, A, Zenner, E, Tsioras, P and Nikooy, M. 2016. Soil disturbance caused by ground-based skidding at different soil moisture conditions in Northern Iran. **International Journal of Forest Engineering** . Volume 27, Issue 3, pp 169- 178. DOI:10.1080/14942119.2016.1234196.
14. **Naghdi, R**, and Mousavi, R. 2016. Impacts of rubber-tired skidder and crawler tractor on forest soil in the mountainous forests of Northern Iran. **Baltic Forestry**. Vol. 22, No. 2, 375-381.
15. Solgi, A, **Naghdi, R**, Labelle, E, Tsioras, P and Nikooy, M. 2016. Effect of varying machine ground pressure and traffic frequency on the physical properties of clay loam soils located in mountainous forests. **International Journal of Forest Engineering**. Volume 27, Issue 3, pp 161-168. DOI: 10.1080/14942119.2016.1226673.
16. **Naghdi, R** , Solgi, A, Labelle, E and Zenner, E. 2016. Influence of ground-based skidding on physical and chemical properties of forest soils and their effects on maple seedling growth. **European Journal of Forest Research**. Volume 135, Issue 5, pp 949-962. DOI 10.1007/s10342-016-0986-3.
17. **Naghdi, R.**, Solgi, A., Ulrik Ilstedt. 2016 . Soil chemical and physical properties after skidding by rubber-tired skidder in Hyrcanian forest, Iran. **Geoderma**. 265 (2016) 12–18. <http://dx.doi.org/10.1016/j.geoderma.2015.11.009>.
18. Nikooy, M, Nourozi, z and **Naghdi, R**. 2015. Survey of felling and bucking operation's safety in Shafaroud watershed. **Forest Research and Development**. Vol 1, No: 3. 209-219.
19. Dalir, P.,**Naghdi, R**. and Mousavi, R. 2015. Assessing the effects of native plants to slope stabilization in road embankments: A case study in Siyahkal forest, Northern Iran. **Hortflora**. 4:(2): 93–96.

20. **Naghdi, R.**, Ghajar, I. and Tsiaras, P. 2015. Time prediction models of grapple skidder HSM 904 using multiple linear regressions (MLR) and adaptive neuro-fuzzy inference system (ANFIS). **Operational Research**. Volume 16, Issue 3, pp 501–512. DOI 10.1007/s12351-015-0210-0.
21. Nikooy, M, Ahrari, A, Salehi, A and **Naghdi, R.** 2015. Effects of rubber-tired skidder and farm tractor on physical properties of soil in plantation areas in the north of Iran. **Journal of Forest Science**, 61(9): 393–398.
22. **Naghdi, R.**, Solgi, A., Zenner, E.K. 2015. Soil Disturbance Caused by Different Skidding Methods in North Mountainous Forests of Iran. **International Journal of Forest Engineering**. Vol. 26, No. 3, 212–224, <http://dx.doi.org/10.1080/14942119.2015.1099814>.
23. Alidokht, M, Rafatnia, N, **Naghdi, R** and Shataie, S. 2015. Designing of Forest Roads Network with an Emphasis on Drainage structures and Construction Standards (case study: Shafarood Forest northern Iran). **Bars Journal (Bulletin of Applied and Research Science)**. Vol: 5(1): 104-112.
24. Dalir, P, **Naghdi, R** and Golami, V. 2015. Assessment Yield sediment factors in forest roads in the northern Iran forests. **ENVIRONMENTAL EROSION RESEARCH**. 4: 4 (16), 27-36. (in Persian).
25. **Naghdi, R.**, Mohammadi, Z, Akef, M and Bagheri, I. 2015. Natural recovery of some micromorphological properties of skid trails for twenty years period (Case study: Asalem forest, Guilan province). **J. of Wood & Forest Science and Technology**, Vol. 22 (1), 111-132. (in Persian).
26. Babapour, R, **Naghdi, R.**, Ghajar, I and Ghodsi, R. 2015. Modeling the proportion of cut slopes rock on forest roads using artificial neural network and ordinal linear regression. **Environ Monit Assess**. 187(7):446. DOI: 10.1007/s10661-015-4688-y.
27. Solgi, A., **Naghdi, R.**, Nikooy, M. 2015. Effects of Skidder on Soil Compaction, Forest Floor Removal and Rut Formation. **Madera y Bosques**. 21(2): 145-153.
28. Solgi, A., **Naghdi, R.**, Tsiaras, P.A., Nikooy, M. 2015. Soil Compaction and Porosity Changes Caused During the Operation of Timberjack450C Skidder in Northern Iran. **Croatian Journal of Forest Engineering**. 36(2): 77-85.
29. **Naghdi, R.**, Solgi, A. 2014. Effects of Skidder Passes and Slope on Soil Disturbance in Two Soil Water Contents. **Croatian Journal of Forest Engineering**. 35 (1), 73-80.
30. Dalir, P, **Naghdi, R** and Golami, V. 2014. Modelling of forest road sediment in the northern forest of Iran (Lomir Watershed). **Journal of Forest Science**, 60(3): 109–114.
31. Tarverdizadeh, H, Nikooy, M, Pourbabaei, H and **Naghdi, R.** 2014. Effects of Road Construction on Biodiversity and Composition of Herbaceous Species Cover, ASALEM FOREST, NORTHERN IRAN. **Forestry Ideas**. 20:(48): 157–169.
32. Mousavi, I and **Naghdi, R.** 2014. Comparison of productivity and cost of timber extraction by farm tractor, skidding vs. forwarding in northern Iran. **Hortflora**. 3:(3): 201–210.

33. Bagheri, I, **Naghdi, R** and Moradmand Jalali, A, 2014. Evaluation of Factors Affecting Soil Erosion along Skid Trails (Case study; Shafarood Forest, Northern Iran). **Caspian J. Env. Sci.** 11(2):151-160.
34. Nikooy, M, **Naghdi, R** and Ershadifar, M. 2013. Survey of Directional Felling and Analysis of Effective Factors on Felling Error (Case study; Iranian Caspian forests). **Caspian J. Env. Sci.** 11(2):177-184.
35. **Naghdi, R**, Maleki, S, Abdi, E, Mousavi, R and Nikooy, M. 2013. Assessing the effect of Alnus roots on hill slope stability in order to use in soil bioengineering. **Journal of Forest Science**, 59(11): 417–423.
36. Yousefpour, M, **Naghdi, R** and Moradmand Jalali, A. 2013. The investigation of the usability of GIS facilities for planning forest roads network in Iranian Caspian forest. **Int. J. Forest, Soil and Erosion**, 3(1): 26-31
37. Mousavi, R and **Naghdi, R**. 2013. Time consumption and productivity analysis of timber trucking using two kinds of trucks in northern Iran. **Journal of Forest Science**, 59(5): 211–221.
38. Nikooy, M, Esmailnezhad, A and **Naghdi, R**. 2013. Productivity and cost analysis of skidding with Timberjack 450C in forest plantations in Shafaroud watershed, Iran. **Journal of Forest Science**, 59(7): 261–266.
39. Ghomi Motazeh, A, **Naghdi, R**, Mohammadi Sammani, K, Taghvaye Salimi, E and Baniasadi, R. 2013. Evaluation of AHP application for Hyrcanian forests through road construction potential map. **Forestry Ideas**. 19:(45): 69–78.
40. Mousavi, R , Nikooy, M and **Naghdi, R**. 2013. Comparison of timber skidding using two ground-based skidding systems: grapple skidding vs. cable skidding. **Int. Journal of Forest, Soil and Erosion**. 3(3):79-86.
41. Babapour, R, **Naghdi, R.**, Salehi, A and Ghajar, I. 2013. A Decision Support System for Allocation of Mountain Forest Roads Based on Ground Stability. **Arabian Journal of Science and Engineering**. DOI 10.1007/s13369-013-0833-5.
42. **Naghdi, R** and Ghajar, I. 2012. Application of Artificial Neural Network in the Modeling of Skidding Time Prediction. **Advanced materials research (AMR)**- 403-408 (2012) pp 3538-3543.
43. Ghaffariyan, M , **Naghdi, R**, Ghajar, I and Nikooy, M. 2012. Time Prediction Models and Cost Evaluation of Cut-To-Length (CTL) Harvesting Method in a Mountainous Forest. **Small-scale Forestry**. DOI 10.1007/s11842-012-9204-4.
44. Akbarimehr, M and **Naghdi, R**. 2012. Reducing erosion from forest roads and skid trails by management practices. **Journal of Forest Science**, 58, 2012 (4): 165–169.
45. Akbarimehr, M and **Naghdi, R**. 2012. Assessing the relationship of slope and runoff volume on skid trails (Case study: Nav 3 district). **Journal of Forest Science**, 58, 2012 (8): 357–362.
46. **Naghdi, R**, Mohammadi Limaie, S, Babapour, R and Ariamanesh, M. 2012. Designing of forest road network based on technical and economical considerations using GIS & AHP. **International Journal of Applied and Natural Sciences (IJANS)**. 1(2):39-44.
47. Akbarimehr, M and **Naghdi, R**. 2012. Determination of most appropriate distance between water diversions on skid trails in the mountainous forest, north of Iran. **Catena** 88: 68-72.

48. Bagheri, I and **Naghdi, R.** 2011. Effect of HSM 904 wheel skidder and Zetor crawler skidder on rutting and soil displacement. **Silva Balcanica**, 12(1):113-120.
49. **Naghdi, R.,** Moradmand Jalali, A., Mohammadi, K and Akbarimehr, M. 2011. Effects of selective and shelter wood method on quality and quantity of trees around skid trails in Beech forests. **Journal of Forest Science**, 57(10). 459-465.
50. Mohammadi Limaiei, S, Namdari, S, Bonyad, A and **Naghdi, R.** 2011. Economically optimal cutting cycle in a beech forest, Iranian Caspian Forests. **Caspian J. Env. Sci.** (9)181-188.
51. **Naghdi, R.,** Bagheri, I and Basiri, R. 2010. Soil disturbances due to machinery traffic on steep skid trail in the north mountainous forest of Iran. **Journal of Forestry Research.** 21(4):497-502.
52. Maskani Jifroudi, H, **Naghdi, R,** Firozan, A and Haghghi, M. 2009. The assigning of suitable model for valuation of effective factors in forest roads network planning (Shanderman forest, Northern Iran). **Journal of Applied sciences.** 9(18):3364-3370.
53. **Naghdi, R,** Lotfalian, M, Moradmand Jalali, A and Bagheri, I. 2009. Damages of skidder and animal logging to forest soils and natural regeneration. **Croatian journal of forest engineering.** 30 (2):141-149.
54. Bagheri, I, **Naghdi, R.** 2009. Efficiency evaluation of ground skidding system and determining the optimum forest road density in Caspian forest (Northern Iran). **International Journal of Natural and Engineering Sciences** 3(3): 74-80.
55. **Naghdi, R,** Sabetraftar, K, Abedi, T and Hosseini, A. 2009. Study of Soil Mass Movement in Harvested Areas of Caspian Forest (northern Iran). **Indian Journal of forestry.** 32(4):537-543.
56. **Naghdi, R,** Moradmand Jalali, A., Ghaffariyan, M., Lotfalian, M. 2009. Soil porosity and soil stress for skidder and mule logging sites. **Journal of Forest Science Sofia.** 2(3):103-113.
57. **Naghdi, R** and Mohammadi Limaiei, S. 2009. Optimal forest road density based on skidding and road construction costs in Iranian Caspian forests. **Caspian J. Env. Sci.** 7(2):79-86.
58. **Naghdi, R,** Bagheri, I, Lotfalian, M and Setodeh, B. 2009. Rutting and soil displacement caused by 450C Timber Jack wheeled skidder (Asalem forest northern Iran). **Journal of Forest Science.** 55(4):177-183.
59. **Naghdi, R,** Bagheri, I, Zamanipor, S. 2008. Planning of optimum skid trails in order to reduce environmental damages in Shafaroud Forest (Northern Iran). **Indian Journal of forestry.** 31(2): 251-256.
60. **Naghdi, R.,** Bonyad, A and Maskani, H. 2008. Processes of forest products and production costs in Guilan forests, Iran. **Caspian J. Env. Sci.** 6(2):197-173.
61. **Naghdi, R,** Bagheri, I. 2007. Evaluation of tree length and assortment logging methods with respect to timber production in Caspian forest in northern Iran. **Asian Journal of Plant Sciences,** 6 (1):46-50.
62. **Naghdi, R,** Bagheri, I. Akef, M, Mahdavi, A. 2007. Soil compaction caused by timberjack 450C wheeled skidder (Shefarood forest, northern Iran). **Journal of Forest Science,** 53(7):314-319
63. Mahdavi, A, **Naghdi, R.** 2007. Information and data flow analysis for forestry sector in Iran as a basic requirement for designing a forest information system (FIS). **Caspian Journal of Environmental Sciences.** 5(2):147-153.

CONFERENCES

1. Dalir, P, **Naghdi, R** and Ghajar, I. 2015. Assessment Effect of slash and litter coverage to reduce erosion in forest road embankments. **2th International E-Conference on Green Economics. Babolsar. Iran.**
2. **Naghdi, R** and Solgi, A. 2015. FOREST DAMAGE CAUSED BY SELECTION LOGGING OF ORIENTAL BEECH (*Fagus orientalis* Lipsky) IN NORTHERN IRAN. **The 10th International Beech Symposium. Kastamonu, Safranbolu / TURKEY.**
3. **Naghdi, R** and Solgi, A. 2015. Contributions of traffic frequency and ground pressure to soil disturbance. **Proceedings of the 48th FORMEC Symposium 2015 Oct 4-8, 2015, Linz, Austria.** PP. 431-434.
4. **Naghdi, R** , Ghajar, I and S.Zahedi, S. 2015. Monitoring the changes of flood discharge caused by harvesting operations in a mountainous Hyrcanian forest. **Proceedings of the 48th FORMEC Symposium 2015 Oct 4-8, 2015, Linz, Austria.** PP. 435-439.
5. Ghajar, I and **Naghdi, R**. 2015. Forecasting the degree of error in trees falling direction using cascade-forward artificial neural network. **Proceedings of the 48th FORMEC Symposium 2015 Oct 4-8, 2015, Linz, Austria.** PP. 441-445.
6. **Naghdi, R** and Abedi, R. 2012. Investigating the effects of logging on plant species diversity in the north forest of Iran. **3th international conference on climate change and dendrology. Sari.**
7. **Naghdi, R.**, Nikooy ,M and Akbarimehr , M. 2012. The Influence of Slope Length on Soil Loss in Skid Trails in the North Forest of Iran. **8th International Soil Science Congress on "Land Degradation and Challenges in Sustainable Soil Management". İzmir, TURKEY.**
8. **Naghdi, R.**, Akef, M, Bagheri, I and Mohammadi, Z. 2012. Natural Recovery Assessment of Physical and Chemical Properties of Forest Soil Disturbed by Ground-Base Skidding in Iranian Caspian Forest. **8th International Soil Science Congress on "Land Degradation and Challenges in Sustainable Soil Management". İzmir, TURKEY.**
9. **Naghdi, R.**, Nikooy ,M, Bagheri, I and Marzban, S. 2012. Evaluation of production and cost of Komatsu PC200 excavator during forest road construction in Caspian forest of Iran **Proceeding of 45th international symposium on forestry mechanization. FORMEC. Croatia.**
10. **Naghdi, R.** Maleki, S, Abdi, E and Nikooy , M. 2012. Forest road stabilization using bioengineering methods in Caspian Forest, Iran. **Proceeding of 45th international symposium on forestry mechanization. FORMEC. Croatia.**
11. Nikooy ,M and **Naghdi, R**. 2012. Directional felling cost and productivity study in Caspian forest of Iran. **Proceeding of 45th international symposium on forestry mechanization. FORMEC. Croatia.**

12. **Naghdi, R** and Ghajar, I. 2011. Application of Artificial Neural Network in the Modeling of Skidding Time Prediction. **2011 International Conference on Control, Robotics and Cybernetics(ICCRC). New Delhi, India.**
13. Yousefifard, S , **Naghdi, R** and Ghajar, I. 2011. Modeling of HSM loader Loading time Prediction using Adaptive Network-based Fuzzy Inference System (ANFIS). **Proceeding of the 4th International Conference of Iranian Operations Research Society. Rasht. Iran.**
14. **Naghdi, R** and Nikooy , M. 2011. Determination of skidding time model of wheeled skidder(Timbaejack450C) in up and down skidding in Shafaroud forests. **Proceeding of the 4th International Conference of Iranian Operations Research Society. Rasht. Iran.**
15. **Naghdi, R** and Ghajar, I. 2011. Application of Artificial Neural Network in the Modeling of Skidding Time Prediction. **Proceeding of the 4th International Conference of Iranian Operations Research Society. Rasht. Iran.**
16. **Naghdi, R.**, Moradmam Jalali, A and Mohammadi, K. 2010. Effect of skid trails in selection and shelter wood methods on canopy , quality and quantity aspects of trees in beech forest . **X International Conference of Young Scientists “FORESTS OF EURASIA – PODMOSKOVNY VECHERA”. Moscow, Russia. pp 104-105.**
17. Firouzan, A, **Naghdi, R**, Barari, K. 2009. Surveying on the efficiency of HSM-904 wheeled skidder in Sorkhkola forest of Mazandran province (northern Iran). **Proceeding of XXXIII CIOSTA & CIGR Conference (Mediterraneana University of Reggio Calabria, 17-19 June 2009. Italy).**
18. **Naghdi, R** and Babapour, R. 2009. Planning and evaluating of forest roads network with respect to environmental aspects via GIS application (Case study: Shafaroud forest, northern Iran). **Proceeding of Second International Conference on Environmental and Computer Science. 28-30 December 2009 / Dubai, UAE. pp. 424-427.**
19. **Naghdi, R.** Bagheri, I. Ghajar, E. Taheri, K and Hasanzad, I. 2008. Planning the Most Appropriate Forest Road Network Considering Soil Drainage and Stability Using GIS in Shafaroud Watershed- Guilan. **Proceeding of 7th Annual Asian Conference & Exhibition on Geospatial Information, Technology and Applications. 9pp. Kuala Lumpur, Malaysia.**
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21. **Naghdi. R,** Bagheri. I 2007. Efficiency evaluation of transporting and loading logs in Shafarood forest (northern Iran). **22nd European Conference on Operational Research. Prague.**
22. Bagheri. I, **Naghdi. R.** 2007. Efficiency evaluation of ground skidding system and determining the optimum forest road density in Caspian forest (Northern Iran). **22nd European Conference on Operational Research. Prague.**
23. **Naghdi. R,** Bagheri. I, Akef. M. 2006. Effects of timberjack 450C wheeled skidder on soil compaction (Kilesera forest north of Iran). **Proceeding of 17th International conference on Soil and Tillage, 28th August- 3rd September, Kiel, Germany, 379-384.**
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Proceedings of the intern workshop on logging systems and road construction in mountain areas, 18th -29th July, Freiburg, Germany, 35-47.

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26. Rafatnia. N, Hemmati. V, **Naghdi. R**, Salehpour. K. 2004. Felling and winching damages on Regeneration following selection logging in Seyahkal forest , (2004) **International conference of Forest Engineering ,Ukraine.**
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28. **Naghdi. R**, Rafatnia. N, Sobhani. H. 2003. Investigation of the efficiency of Timber Jack 450C wheel skidder in Shafaroud forest, (2003) **2nd Forest Engineering Conference. 12-15 may 2003. Sweden.**

FORIGN LANGUAGE

- English