

Dr. Akbar Najafi

Department of Forestry, Faculty of natural resources,
Tarbiat Modares University

Current position: Faculty member and manager of Trabiati Modaraes University Experimental Forest Station.

EDUCATION

PhD Forest Engineering, University of Tehran, Iran August 2005

MSc. Forest Engineering, University of Tehran, Iran - Honor, 1998

BSc. Forestry and Forest Economy, University of Tehran, Iran - Honor, 1996

PUBLICATIONS

Research Publications:

1. **Najafi, A.,** Sobhani, H., Saeed, A., Mohajer, M. Makhdum, M. 2008. Planning a Method to Evaluate Alternative Forest Road and Skidding Networks. Croatian Journal of Forest Engineering. 29(1). 63-73.
2. **Najafi, A.,** Sobhani, H., Saeed, A., Mohajer, M. Makhdum, M. 2008. Productivity and cost of HSM 904. Journal of Natural resources of iran. 60(3). 1-10.
3. **Najafi, A.,** Solgi, A., Sadeghi, S.H. 2009. Soil disturbance following four wheel rubber skidder logging on the steep trail in the north mountainous forest of Iran. Soil & Tillage Research. 103. 165-169.
4. **Najafi, A.,** Solgi, A. 2010. Assessing Site Disturbance Using Two Ground Survey Methods in a Mountain Forest. Croatian Journal of Forest Engineering. 31(1). 47-55.

5. Agherkakli, B., **Najafi, A.**, Sadeghi, S.H. 2010. Ground based operation effects on soil disturbance by steel tracked skidder in a steep slope of forest. *Journal of Forest Science*. 56(6). 278-284.
6. Ghajar, I., **Najafi, A.**, Ezzati, S. 2010. Skidding Machines Allocation (SMA) Using Fuzzy Set theory. *Croatian Journal of Forest Engineering* . 31(2). 99-110.
7. Ezzati S and **Najafi, A.** 2010. "Long-Term Impact Evaluation of Ground-Base Skidding on Residual Damaged Trees in the Hyrcanian Forest, Iran," *International Journal of Forestry Research*, vol. 2010, Article ID 183735, 8 pages, 2010. doi:10.1155/2010/183735
8. Azizi, Z., **Najafi, A.**, Fatehi, P., Pirbavaghar, M. 2010. Extraction of forest roads network map by fuzzy theory and Mathematical morphology. 62(4): 371-379.
9. Saeedi, H and **Najafi, A.** 2010. Application of analytic network process (ANP) to determine priority of livestock movement out of forest and forest settlers reorganization (case study: Babakouh district; Guilan). *Iranian Journal of Forest*. 2(4):309-312.
10. Azizi, Z., **Najafi, A.**, Fatehi, P., Pirbavaghar, M. 2010. Forest stand volume estimation using satellite IRS_P6 (LISS_IV) data (Case study: Lirehsar, Tonekabon). 18(1): 144-152.
11. Ezzati, S., Mohammadi, K., **Najafi, A.**, Hasangholipour, H. 2010. *In press*. Evaluation and Develop an Existing Forest Road Network Base on Environmental Factors. *Forestry Ideas*.
12. **Najafi, A.**, Solgi, A., Sadeghi, S.H. 2010. Effects of Skid Trail Slope and Ground Skidding on Soil Disturbance. *Caspian Journal of Environmental Science*. 8(1): 13-23
13. Mohammadi, K., Hoseini, S.A., Lotfalian, M. **Najafi, A.** 2010. Planning road network in mountain forests using GIS and Analytic Hierarchical Process (AHP). *Caspian Journal of Environmental Science*. 8(2): 151-162
14. Kooch, Y and **Najafi, A.** 2010. The Use of Analytical Hierarchy Process (AHP) in Ecological Potential Assessment of Present Forest Stands in Darabkola Region. *Journal of forest and Wood Products*. *In press*
15. **Najafi, A.**, Hosseini, S.M., Ezzati, S., Fakhari, M., Torabi, M. 2010. Comparison of Regeneration and Biodiversity of Trees on Cut and Fill Edges of Forest Road. *Wood Technology and Forest*. *In press*.
16. **Najafi, A.** Hossieni, S.M., Ezzati, S. Torabi, M. Fakhari, M.A. 2011. Comparison of Regeneration and Biodiversity of Trees on Cut and Fill Edges of Forest Road. *Wood & Forest Science and Technology*. *In Press*
17. Agherkakli, B., **Najafi, A.**, Sadeghi, S.H. 2011. Change in Soil hysical Properties in Response to Metal - Tracked Skidder Traffic. *International Journal of Natural resources and Marin Sciences*. 1(1): 1-8.
18. Ezzati, S. and **Najafi, A.** 2011. Impacts of Twenty Years Ground-Base Skidding on Physical and Hydrological Soil Properties. *Journal of Science and Technology of Agriculture and Natural Resources, Water and Soil Science*. *In Press*.

19. Kooch, Y and **Najafi, A.** 2011. Ecological Potential Assessment of Forest Groups Using of Fuzzy Set Theory and Regression Analysis of Soil Characteristics. Wood & Forest Science and Technology. *In Press*

20. Ezzati, S. and **Najafi, A.** 2011. Impact of Animal Logging on Soil Physical Properties in Mule Trail in Hyrcanian Forests. Transportation Research Part D. 16(4): 316-320.

List of Papers Presented in Congresses and Seminars:

Aghehakli B.M, Najafi A. 2008. Investigation of soil compaction by steel tracked skidder on steep terrain. The 1st. International Conference on the Caspian Region Environmental Changes.

Azizi Z , Najafi A, Moradi HR. 2008. Delineation of vegetation coverage / nonvegetation coverage land use classes. 4th GIS Conference Along Withisprs Workshop 6-7 January 2008 National Cartographic Center Tehran, IRAN.

Azizi Z , Najafi A, Sohrabi, H. 2008. Frest Canopy Density Estimating, Using Satellite Images. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Vol. XXXVII. Part B8. Beijing 2008.

Aghehakli, B.M., Najafi,A. 2008. Investigation of soil compaction by steel tracked skidder on steep terrain. The 1st. International Conference on the Caspian Region Environmental Changes.

Ezatti, S., Najafi, A., Mohammadi, K. 2009. Siting landing using Shortest path algorithm, AHP and GIS. Geographic information System .

Aghehakli, B.M., Najafi,A., Sadeghi, S.H. 2009. Effect of traffic and Compaction on Soil Erossion on Skid Trail. 11th Irannian Soil Science Congress.

Kazemi-Najafi, S. Bolandbakht, F., Najafi, A. 2009. Detection of Internal Decay in Standing Beech Trees Using Ultrasonic technique. 16th International on Nondestructive Test and evalution of Wood.

Ezatti, S., Mohammadi, K., Najafi, A. 2009. Reviewe effects of harvesting on Iranian Forest. 3 th Environment Congress.

Academic Experiences:

Associate Professor Tarbiat Modarres University, Tehran, Iran (Since 22/08/2006)

Membership of Scientific Societies:

Iranian Forest engineering Association

Referee for Journal Article Submitted to:

Journal of ecological Modeling, Journal of Forest and Products, Journal of Forest, Journal of Natural resources of Gorgan

Research Interests:

- Forest Transportation Planning

- Forest Road Design
- Timber Harvest Scheduling
- Forest Operation research
- Economic evaluation of environmental impacts caused by harvesting