

Northern Research Station
Roslin
Midlothian
EH25 9SY

Tel 0131 445 2176
Fax 0131 445 5124
Email research.info@forestry.gsi.gov.uk
www.forestresearch.gov.uk

Chief Executive
Professor Jim Lynch

Research Director
Dr Peter Freer-Smith

ACECR
Natrual Resources Department,
Guilan University,
Central Building,
Mellat ave Rasht-Iran
PO Box 41635-3576,
Iran

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Dear Sirs

This letter is to confirm an official invitation to the Edinburgh IUFRO conference, scheduled for 5-8 April 2005. Mr Maskani-Jifroudi will be presenting a paper entitled: "Mathematical modelling for cost factors of forest production using time series model" during our Statistcis & Modelling Section.

Sincerely,

Evelyn Hall
Administrator – IUFRO Edinburgh

Mathematical modelling for cost factors of forest production using timeseries model.

H.R. Maskani[1],A.Bonyad[2],H.Fotoohi[3]

1. Member of scientific board of Iranian Academic Center for Education , Culture and Research,Guilan branch(A.C.E.C.R.) Hr_maskani@erijd.ir
2.Member of scientific board of Guilan university. Bonyad@kadous.gu.ac.ir
3. Member of scientific board of Guilan university. H_fotoohi@kadous.gu.ac.ir

Abstract:

Mathematical modeling is one of the best models in natural sciences such as forest it uses logic that predominants natural laws so can provide an organized program and management.
One of the most important factor of this organized program is production cost, because the extent and variety of undermanaged area makes the mathematical modeling due to reality hard, it looks that time series model is a suitable one for mentioned factors because includes most of important but unnoticeable factors , so by a case study an area with 150000 ha area was studied and according to the forest plans balance the statistical community is investigated for 10 years and more than 300000 data were collected and separated as a different cost in forests. After eliminating inflation factor and equalization the decision time an incorrelation statistical test was done on data and for each collection 6 regression model was drawn and the effectiveness of each model with highest correlation statistically was investigated and the suitable model was selected. After investigating "Confidence Limits" of data for the next year the cost was anticipated and showed the reliability of the mentioned model to forecast forest cost.

Keywords:*Modelling,Timeseries,Cost,Forest*