

## **A Dynamic Model for Multi-Criteria Resource Allocation at the Finnish Road Administration**

*Pekka Mild and Ahti Salo  
Systems Analysis Laboratory  
Helsinki University of Technology  
P.O. Box 1100, 02015 TKK, Finland  
[pekka.mild@hut.fi](mailto:pekka.mild@hut.fi), [ahti.salo@tkk.fi](mailto:ahti.salo@tkk.fi)*

*Abstract:* Resource allocation decisions in road management have far-reaching impacts on asset values and future service levels. We present an award-winning decision model to help senior managers at the Finnish Road Administration allocate limited appropriations among different kinds of road products. The model gives budget ranges for each product for a 30-year period, based on annual deterioration of asset values, use of incomplete preference information, and computation of optimal maintenance portfolios.

*Keywords from the list in the on-line abstract submission form:* multi-criteria decision making, decision support systems, resource allocation.