

Fulton School of Engineering
Department of Industrial Engineering
SEMINAR

Raimo P. Hamalainen

Professor, Director of the Systems Analysis Lab
Helsinki University of Technology, Finland. E-mail: raimo@hut.fi

Title: Decisionarium - Aiding Decisions, Negotiating and Collecting Opinions on the Web

Date: December 15, 2004 (Wednesday)

Time: 9:30 am

Place: Goldwater Center GWC 510

Abstract:

Decisionarium (www.decisionarium.hut.fi) is the first public site for interactive multicriteria decision support with tools for individual decision making as well as for group collaboration and negotiation. The goal is to provide educators and practitioners around the world a site where they can test state of the art software for MCDA.

- Web-HIPRE (www.hipre.hut.fi) supports value tree and AHP analysis including group models. The software allows working with different weighting methods in parallel and comparing the results.
- The RICH (www.rich.hut.fi) is software based on the preference programming methodology and it allows the decision maker to provide incomplete ordinal preference statements when considering the relative importance of attributes in a value tree.
- Opinions-Online (www.opinions.hut.fi) is a platform for surveys, voting and group collaboration. There are different ways for voting, multiattribute scoring, surveys as well as interactive viewing of the results.
- Joint Gains (www.jointgains.hut.fi) applies the method of improving directions to support multiparty negotiations in a multicriteria setting.
- Smart Swaps offers an implementation of the even swaps procedure (www.smart-swaps.hut.fi) combined with extra help from preference programming.

All of the tools above are web based so global interaction is natural and links can be utilized for multimedia information support. Decisionarium also offers access to complete e-learning modules (www.dm.hut.fi) based on the use of the software.

Bio:

Prof. Hämäläinen is well known for his work in dynamic game theory and decision analysis. He is the author of over 180 publications and conference papers on decision-making, control and dynamic games, energy modelling and resource management, and biological systems. He is also the designer of many widely used decision support systems. As a consultant he has helped to solve problems especially in the areas of environmental policy and risk analysis. Recently he has actively developed the new concept of Systems Intelligence.