

## **Practical dominance and process support in the Even Swaps method**

Jyri Mustajoki\* and Raimo P. Hämäläinen

Helsinki University of Technology

Systems Analysis Laboratory

P.O. Box 1100, FIN-02015 HUT, Finland

E-mails: jyri.mustajoki@hut.fi, raimo@hut.fi

\*Corresponding author: Tel. +358-9-451 3065, fax +358-9-451 3096

**Abstract:** Two new techniques to help the Even Swaps process (Hammond, Keeney and Raiffa, 1998) are introduced. The idea is to use the pairwise dominance concept as in the PAIRS method (Salo and Hämäläinen, 1992) to identify practically dominated alternatives. Our approach is based on an interval MAVT formulation. We also propose a technique for finding candidates for the trade-offs. The techniques utilize the trade-offs information given by the decision maker in the analysis. These techniques provide help to support the decision maker, and are not intended to automate the process. The practical use is illustrated with the related software.

**Keywords:** Multicriteria Decision Analysis, Even Swaps, Interval Judgments, Decision Support Systems, Trade-Offs