BEHAVIORAL OPERATIONS RESEARCH - BOR

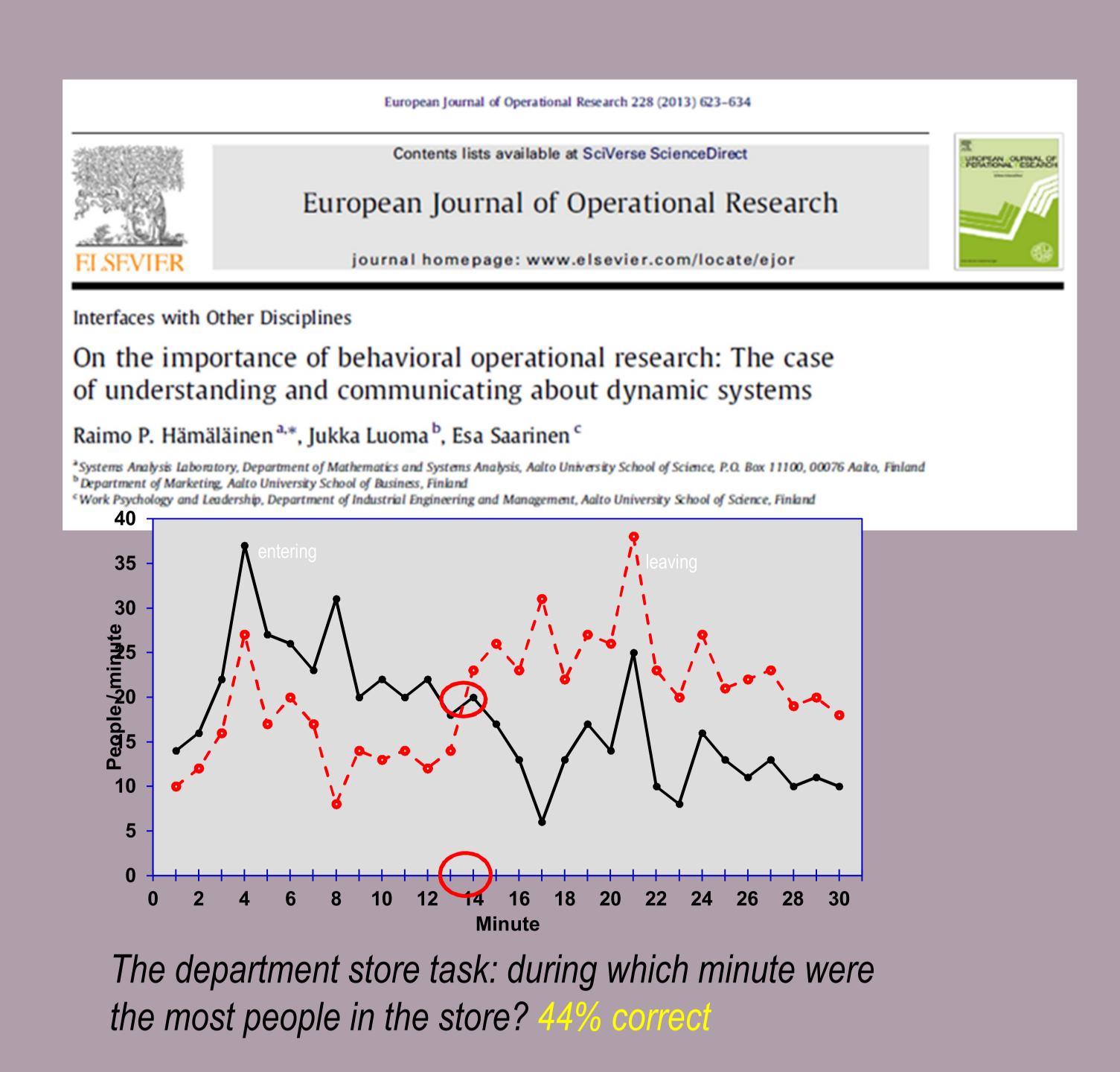
experiments on games, human interaction and decision making

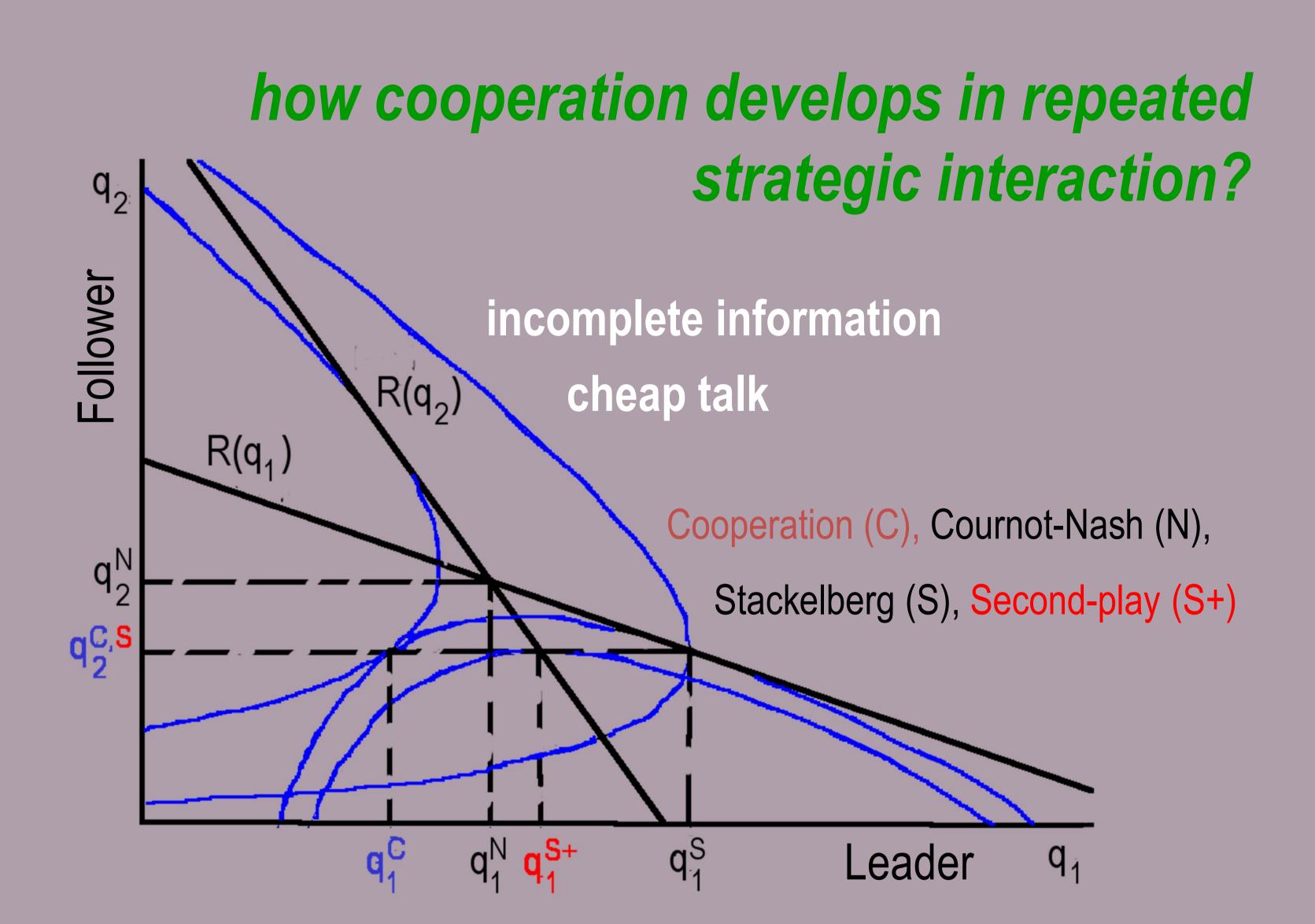
The study of behavioral aspects related to the use of operations research methods in modeling, problem solving, and decision support,

The use of OR methods in modelling human behavior

The pioneers of OR,
West Churchman and Russell Ackoff:

OR is not mathematics only

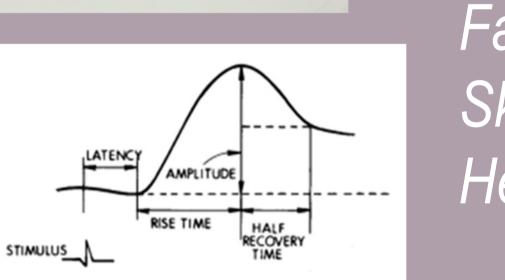






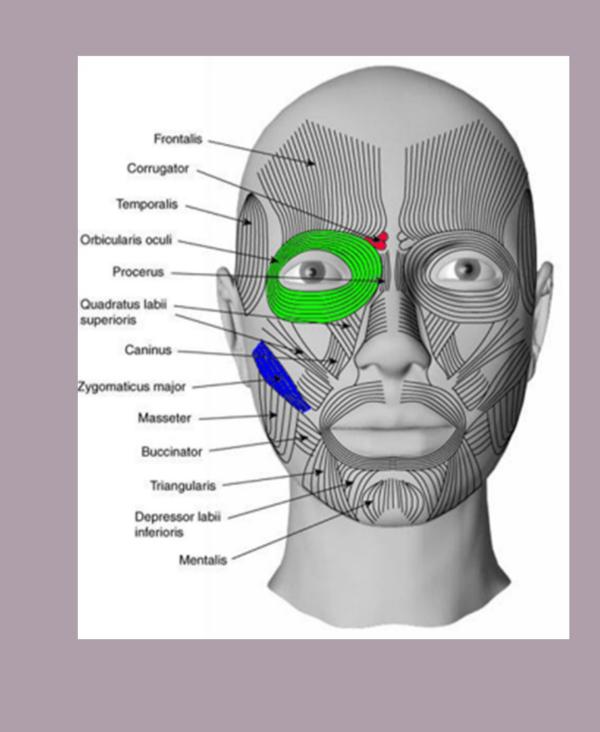
is cooperation emotional or cognitive?

psychophysiological experiments in repeated duopoly games

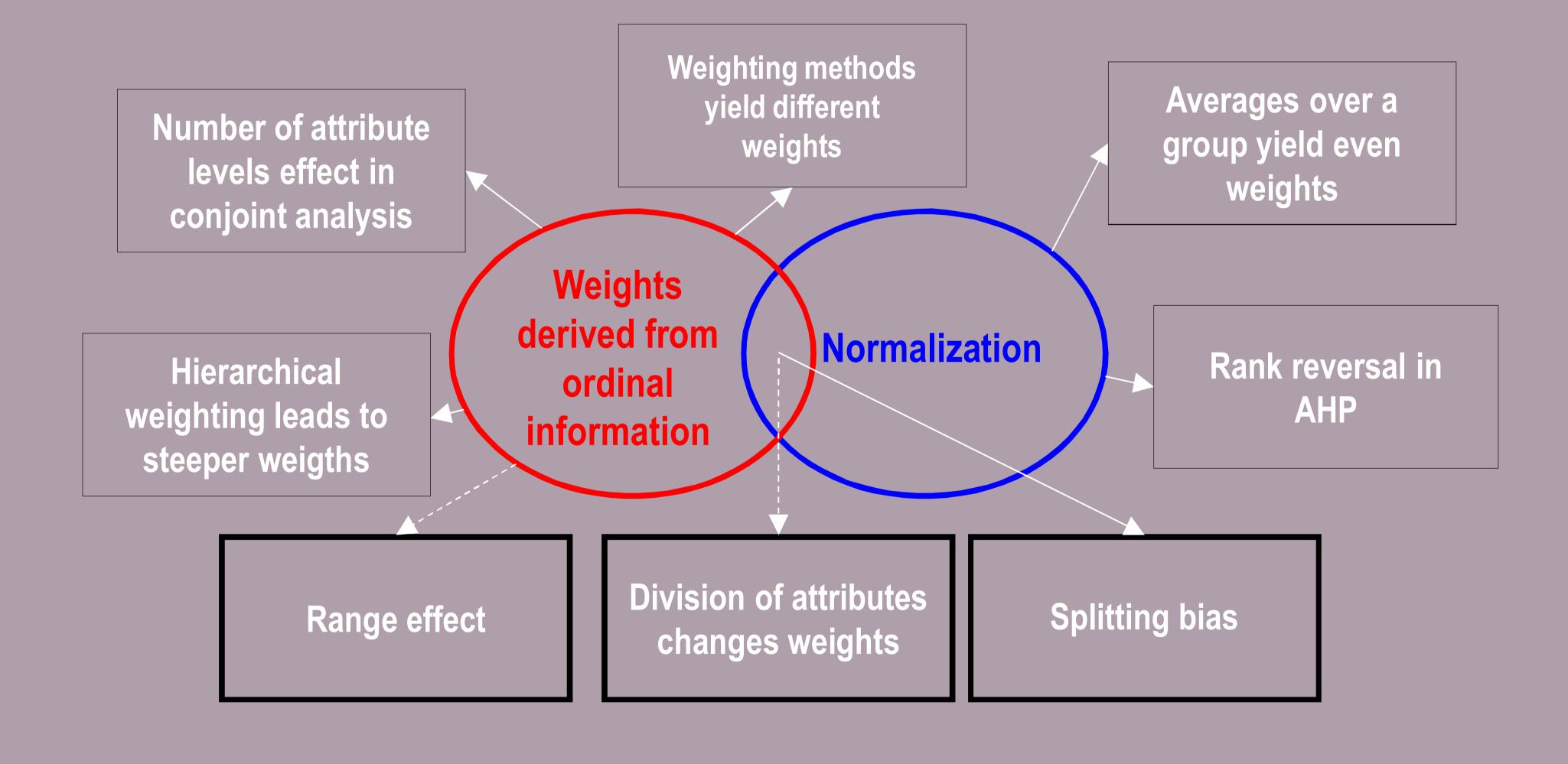


Facial electromyography
Skin conductance response
Heart rate variability

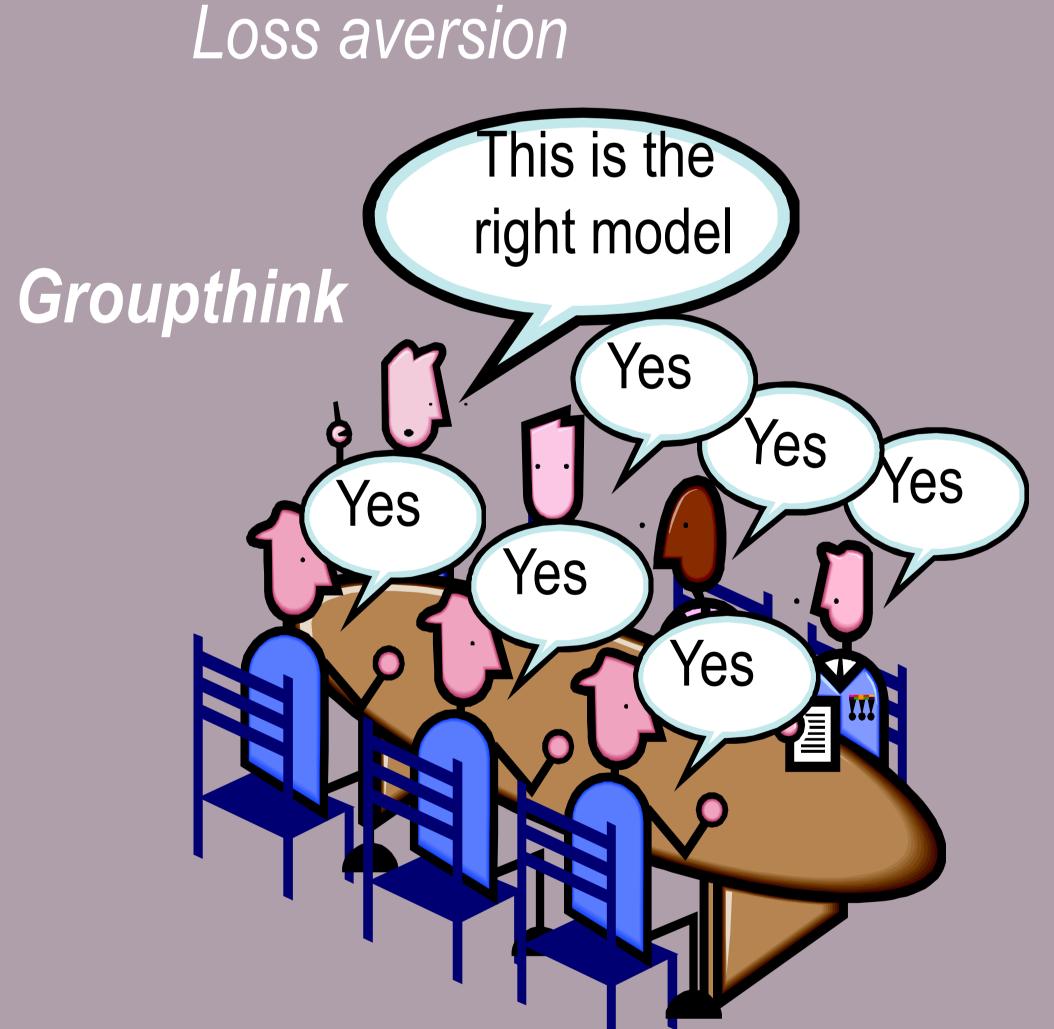




cognitive and behavioral biases in modeling and decision making

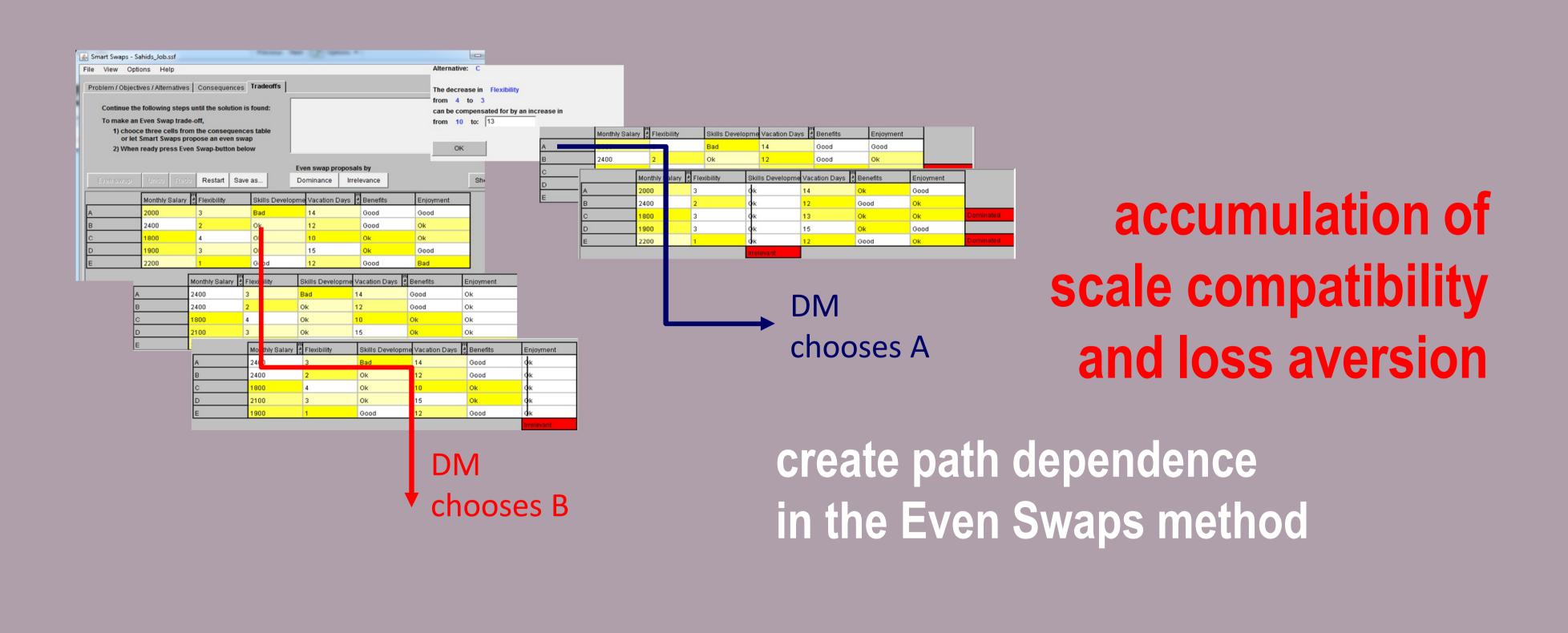


Man with a hammer
Appeal to authority
Overconfidence
Beauty effect
Cognitive dissonance
Commitment bias
Scale compatibility bias

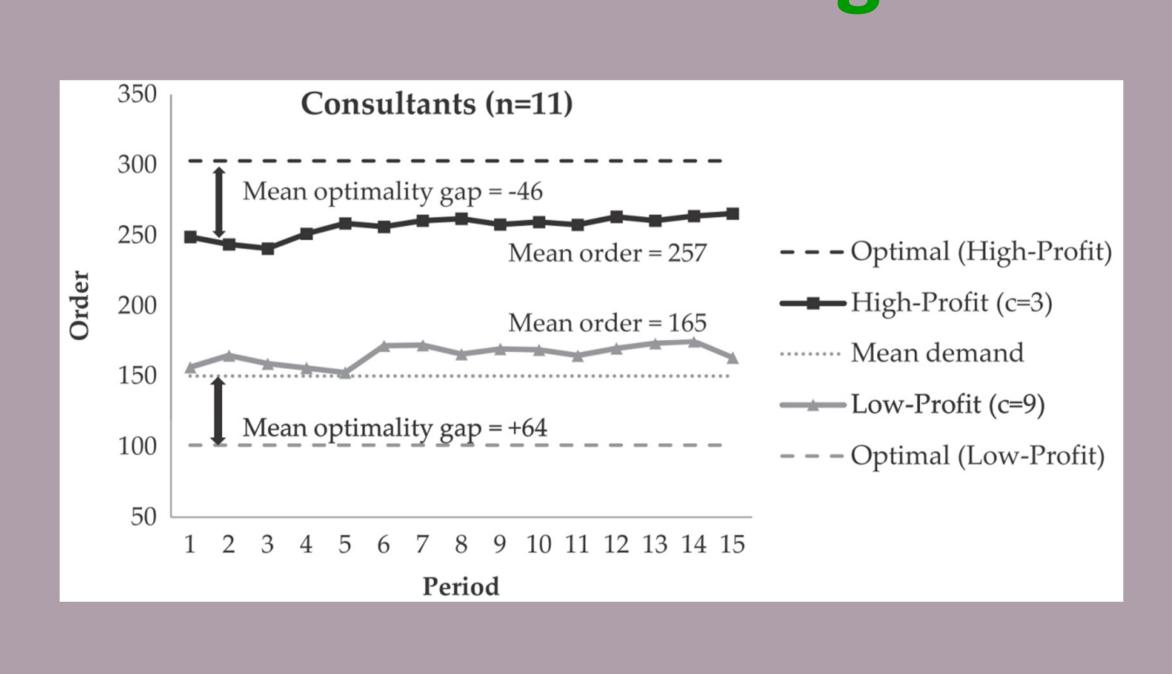


path dependence

the outcome of the decision process depends on the path followed



supply chain decision making



selected publications and manuscripts

L. Alberto Franco and Raimo P. Hämäläinen (eds.), *Special Issue*: Behavioral Operations Research, 2015, *European Journal of Operational Research* **R.P. Hämäläinen**, **J. Luoma and E. Saarinen**: On the Importance of Behavioral Operational Research: The Case of Understanding and Communicating about Dynamic Systems. *European Journal of Operational Research* 228, 2013

A. Käki, J. Liesiö, A. Salo and S. Talluri: Newsvendor decisions under supply uncertainty. *International Journal of Production Research*

R.P. Hämäläinen and I. Leppänen: Cheap talk and cooperation in Stackelberg games. *Manuscript 2014*

R.P. Hämäläinen: Behavioural modelling research - the missing perspective. *Manuscript 2014*

T.J. Lahtinen and R.P. Hämäläinen: Biases and path dependency in the Even Swaps method. Manuscript 2014

M. Pöyhönen, H.C.J. Vrolijk and R.P. Hämäläinen: Behavioral and Procedural Consequences of Structural Variation in Value Trees. *European Journal of Operational Research*, Vol. 134/1, 2001

M. Pöyhönen and R.P. Hämäläinen: Notes on the weighting biases in value trees. *Journal of Behavioral Decision Making, Vol. 11, 1998, pp. 139-150.*M. Pöyhönen, R.P. Hämäläinen and A. A. Salo: An experiment on the numerical modeling of verbal ratio statements. *Journal of Multi-Criteria Decision Analysis, Vol. 6, 1997*



