Contents

Preface: Integrated uncertainty management for decision making
V.-N. Huynh, J. Lawry, and Y. Nakamori 1

On some claims related to Choquet integral risk measures
H.T. Nguyen, U.H. Pham, and H.D. Tran 5

Characterization of a coherent upper conditional prevision as the Choquet integral with respect to its associated Hausdorff outer measure
S. Doria 33

Constraint programming for stochastic inventory systems under shortage cost
R. Rossi, S.A. Tarim, B. Hnich, and S. Prestwich 49

Efficient algorithms for heavy-tail analysis under interval uncertainty
V. Kreinovich, M. Chiangpradit, and W. Panichkitkosolkul 73

Choquet integral for record linkage
D. Abril, G. Navarro-Arribas, and V. Torra 97

Normal form backward induction for decision trees with coherent lower previsions
N. Huntley and M.C.M. Troffaes 111

Evidential reasoning in large partially ordered sets: Application to multi-label classification, ensemble clustering and preference aggregation
T. Deneux and M.-H. Masson 135

An introduction and survey of the evidential reasoning approach for multiple criteria decision analysis
D.-L. Xu 163

Qualitative and quantitative data envelopment analysis with interval data
M. Inuiguchi and F. Mizoshita 189

Different generalizations of bags
S. Miyamoto 221

Consistent union and prioritized consistent union: new operations for preference aggregation
M. Rademaker and B. De Baets 237

Aggregation functions and generalized convexity in fuzzy optimization and decision making
J. Ramik and M. Vlach 261
A new method for managing the uncertainties in evaluating multi-person multi-criteria location choices, using a perceptual computer

S. Han and J.M. Mendel

Information cells and information cell mixture models for concept modelling

Y. Tang and J. Lawry

A group nonadditive multiattribute consumer-oriented Kansei evaluation model with an application to traditional crafts

H.-B. Yan, V.-N. Huynh, and Y. Nakamori

An analytical model for building brand equity in hospitality firms

T.-H. Hsu, L.-C. Hung, and J.-W. Tang