

Trends In Multiple Criteria Decision Analysis

[DOWNLOAD HERE](#)

1;Trends in Multiple Criteria Decision Analysis;1 1.1;Contents ;5 1.2;List of Figures;7 1.3;List of Tables;9 1.4;Introduction;11 1.4.1;1 Introduction;11 1.5;1 Dynamic MCDM, Habitual Domains and Competence Set Analysis for Effective Decision Making in Changeable Spaces;17 1.5.1;1.1 Introduction;17 1.5.2;1.2 Three Decision Makings in Changeable Spaces;19 1.5.3;1.3 Dynamics of Human Behavior;20 1.5.3.1;1.3.1 A Sketch of the Behavior Mechanism;21 1.5.3.2;1.3.2 Eight Hypotheses of Brain and Mind Operation;22 1.5.3.3;1.3.3 Paradoxical Behavior;25 1.5.4;1.4 Habitual Domains;27 1.5.4.1;1.4.1 Definition and Stability of Habitual Domains;28 1.5.4.2;1.4.2 Elements of Habitual Domains;30 1.5.4.3;1.4.3 Expansion and Enrichment of Habitual Domains;31 1.5.4.3.1;1.4.3.1 Seven Self-Perpetuating Operators;31 1.5.4.3.2;1.4.3.2 Eight Methods for Expanding the Habitual Domains;33 1.5.4.3.3;1.4.3.3 Nine Principles of Deep Knowledge;34 1.5.5;1.5 Competence Set Analysis;35 1.5.5.1;1.5.1 Concept of Competence Set Analysis;36 1.5.5.2;1.5.2 Research Issues of Competence Set Analysis;38 1.5.5.3;1.5.3 Innovation Dynamics;40 1.5.6;1.6 Decision Making in Changeable Spaces;44 1.5.6.1;1.6.1 Parameters in Decision Processes;45 1.5.6.2;1.6.2 Decision Blinds and Decision Traps;47 1.5.7;1.7 Conclusion;48 1.5.8;References;49 1.6;2 The Need for and Possible Methods of Objective Ranking;52 1.6.1;2.1 Introduction;52 1.6.2;2.2 The Need for Objective Ranking and the Issue of Objectivity;54 1.6.3;2.3 Basic Formulations and Assumptions;57 1.6.4;2.4 Why Classical Approaches Are Not Applicable in This Case;59 1.6.5;2.5 Reference Point Approaches for Objective Ranking;61 1.6.6;2.6 Examples;65 1.6.7;2.7 Conclusions and Further Research;69 1.6.8;References;70 1.7;3 Preference Function Modelling: The Mathematical Foundations of Decision Theory;72 1.7.1;3.1 Introduction;72 1.7.2;3.2 Measurement of Preference;73 1.7.2.1;3.2.1 Empirical Addition Circumventing the Issue;74 1.7.2.2;3.2.2 Applicability of Operations on Scale Values Versus Scale Operations;75 1.7.3;3.3 The Principle of Reflection;76 1.7.4;3.4 The Ordinal Utility Claim in Economic Theory;76 1.7.4.1;3.4.1 Ordinal Utility;77 1.7.4.2;3.4.2 Optimality Conditions on Indifference Surfaces;78 1.7.4.3;3.4.3 Pareto's Claim;80 1.7.4.4;3.4.4 Samuelson's Explanation;80 1.7.4.5;3.4.5 Counter-Examples;81 1.7.5;3.5 Shortcomings of Utility Theory;81 1.7.5.1;3.5.1 Von Neumann and Morgenstern's Utility Theory;82 1.7.5.2;3.5.2 Addition and

Multiplication Are Not Applicable to Utility Scales;82 1.7.5.3;3.5.3 Barzilai's Paradox: Utility's Intrinsic Contradiction;83 1.7.5.4;3.5.4 Utility Theory Is Neither Prescriptive Nor Normative;83 1.7.5.5;3.5.5 Von Neumann and Morgenstern's Structure Is Not Operational;84 1.7.6;3.6 Shortcomings of Game Theory;84 1.7.6.1;3.6.1 Undefined Sums;85 1.7.6.2;3.6.2 The Utility of a Coalition;85 1.7.6.3;3.6.3 The' Value of a Two-Person Zero-Sum Game Is Ill-Defined;85 1.7.6.4;3.6.4 The Characteristic Function of Game Theory is Ill-Defined;86 1.7.6.5;3.6.5 The Essential Role of Preference;86 1.7.6.6;3.6.6 Implications;87 1.7.6.7;3.6.7 On Utility Functions That Are Linear in Money';88 1.7.6.8;3.6.8 The Minimax Solution of Two-Person Zero-Sum Games;88 1.7.6.9;3.6.9 Errors Not Corrected;90 1.7.7;3.7 Reconstructing the Foundations;90 1.7.7.1;3.7.1 Proper Scales Straight Lines;90 1.7.7.2;3.7.2 Strong Scales the Real Numbers;92 1.7.7.3;3.7.3 The Axioms of an Affine Straight Line;93 1.7.7.3.1;3.7.3.1 Groups and Fields;93 1.7.7.3.2;3.7.3.2 Vector and Affine Spaces;93 1.7.8;3.8 Measurement Theory;94 1.7.9;3.9 Classical Decision Theory;95 1.7.9.1;3.9.1 Utility Theory;95 1.7.9.2;3.9.2 Undefined Ratios and Pairwise Comparisons;96 1.7.9.3;3.9.3 The Analytic Hierarchy Process;96 1.7.9.4;3.9.4 Value Theory;97 1.7.9.5;3.9.5 Group Decision Making;98 1.7.10;3.10 Summary;98 1.7.11;References;99 1.8;4 Robustness in Multi-criteria Decision Aiding; EAN/ISBN : 9781441959041 Publisher(s): Springer, Berlin, Springer Science & Business Media Discussed keywords: Entscheidungstheorie, Operations Research Format: ePub/PDF Author(s): Ehrgott, Matthias - Figueira, Jos Rui - Greco, Salvatore

[DOWNLOAD HERE](#)

Similar manuals:

[Algebraic And Combinatorial Methods In Operations Research. North-Holland Mathematics Studies, Volume 95: Annals Of Discrete Mathematics, Volume 19.](#)

[Annotated Timeline Of Operations Research](#)

[Community-Based Operations Research](#)

[Operations Research And Health Care](#)

[Operations Research Proceedings 2008](#)

[Operations Research Proceedings 2010](#)

[Perspectives On Operations Research](#)

[Profiles In Operations Research](#)

[Trends In Multiple Criteria Decision Analysis](#)

[Operations Research](#)

[Operations Research](#)

[E-Study Guide For: Handbooks In Operations Research And Management Science : Financial Engineering By John Birge, ISBN 9780444517814 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Handbooks In Operations Research & Management Science : Transportation By Cynthia Barnhart, ISBN 9780444513465 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Deterministic Operations Research : Models And Methods In Linear Optimization By David Rader, ISBN 9780470484517 - Cram101 Textbook Reviews](#)

[How To Land A Top-Paying Operations Research Analysts Job: Your Complete Guide To Opportunities, Resumes And Cover Letters, Interviews, Salaries, Prom - Aaron McLaughlin](#)

[Operations Research Analyst, Business Analyst, Intelligence Analyst - How To Land A Top-Paying Job: Your Complete Guide To Opportunities, Resumes And - Brad Andrews](#)

[E-Study Guide For: Introductory Operations Research By Harvir S. Kasana, ISBN 9783540401384 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Operations Research : Introduction By Hamdy A. Taha, ISBN 9780131889231 - Cram101 Textbook Reviews](#)

[E-Study Guide For: Probability Models In Operations Research By C. Richard Cassady, ISBN 9781420054897 - Cram101 Textbook Reviews](#)