

CHAPTER 2 MULTI CRITERIA DECISION MAKING SPRINGER

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THIS CHAPTER DELVES INTO THE REALM OF MULTICRITERIA DECISION MAKING MCDM A POWERFUL FRAMEWORK FOR TACKLING COMPLEX DECISION PROBLEMS INVOLVING MULTIPLE OFTEN CONFLICTING CRITERIA WE WILL EXPLORE THE CORE CONCEPTS KEY METHODOLOGIES AND PRACTICAL APPLICATIONS OF MCDM EQUIPPING YOU WITH THE TOOLS TO ANALYZE AND ADDRESS A WIDE RANGE OF REALWORLD DECISION CHALLENGES 22 THE ESSENCE OF MCDM MCDM IS CONCERNED WITH MAKING DECISIONS IN SITUATIONS WHERE MULTIPLE CRITERIA MUST BE CONSIDERED SIMULTANEOUSLY THESE CRITERIA CAN BE QUANTITATIVE EG COST PROFIT OR QUALITATIVE EG ENVIRONMENTAL IMPACT CUSTOMER SATISFACTION OFTEN WITH CONFLICTING OBJECTIVES THE CHALLENGE LIES IN FINDING A SOLUTION THAT OPTIMALLY BALANCES THESE CONFLICTING ASPECTS 23 KEY CONCEPTS CRITERIA THE SPECIFIC ATTRIBUTES OR FACTORS THAT INFLUENCE THE DECISION ALTERNATIVES THE DIFFERENT OPTIONS OR CHOICES AVAILABLE TO THE DECISIONMAKER WEIGHTS NUMERICAL REPRESENTATIONS OF THE RELATIVE IMPORTANCE OF EACH CRITERION PERFORMANCE MEASURES EVALUATION OF EACH ALTERNATIVE AGAINST EACH CRITERION DECISION RULE THE LOGIC OR ALGORITHM USED TO SELECT THE BEST ALTERNATIVE BASED ON THE WEIGHTED CRITERIA 24 ADVANTAGES OF MCDM SYSTEMATIC APPROACH MCDM PROVIDES A STRUCTURED FRAMEWORK FOR DECISIONMAKING ENSURING A COMPREHENSIVE AND LOGICAL PROCESS TRANSPARENCY AND ACCOUNTABILITY THE EXPLICIT CONSIDERATION OF ALL RELEVANT CRITERIA AND THEIR WEIGHTS ENHANCES THE TRANSPARENCY AND ACCOUNTABILITY OF THE DECISIONMAKING PROCESS IMPROVED DECISION QUALITY BY EXPLICITLY ANALYZING THE TRADEOFFS AND INCORPORATING THE PERSPECTIVES OF VARIOUS STAKEHOLDERS MCDM CAN LEAD TO MORE INFORMED AND ROBUST DECISIONS CONFLICT RESOLUTION MCDM OFFERS A PLATFORM FOR FACILITATING CONSTRUCTIVE DIALOGUE AND NEGOTIATING SOLUTIONS WHEN STAKEHOLDERS HOLD DIVERSE VIEWPOINTS 25 MCDM METHODOLOGIES SEVERAL ESTABLISHED MCDM METHODS EXIST EACH SUITED TO DIFFERENT PROBLEM TYPES AND DECISIONMAKING CONTEXTS THIS CHAPTER WILL FOCUS ON SOME OF THE MOST WIDELY USED AND VERSATILE APPROACHES 251 ANALYTICAL HIERARCHY PROCESS AHP CONCEPT A HIERARCHICAL DECOMPOSITION APPROACH THAT BREAKS DOWN COMPLEX PROBLEMS INTO A SERIES OF LEVELS ALLOWING FOR PAIRWISE COMPARISONS OF ELEMENTS AT EACH LEVEL KEY FEATURES USES SUBJECTIVE JUDGMENTS BASED ON PAIRWISE COMPARISONS ALLOWS FOR THE INCORPORATION OF BOTH QUANTITATIVE AND QUALITATIVE CRITERIA PROVIDES A CONSISTENT AND COMPREHENSIVE RANKING OF ALTERNATIVES 252 ELECTRE ELIMINATION ET CHOIX TRADUISANT LA RALIT CONCEPT A METHOD BASED ON THE CONCEPT OF OUTRANKING WHERE AN ALTERNATIVE IS CONSIDERED BETTER THAN ANOTHER IF IT OUTPERFORMS IT ON A SIGNIFICANT NUMBER OF CRITERIA KEY FEATURES EMPLOYS A CONCORDANCE AND DISCORDANCE INDEX TO ASSESS THE RELATIVE STRENGTHS AND WEAKNESSES OF ALTERNATIVES PROVIDES A RANKING OF

ALTERNATIVES BASED ON THEIR OVERALL OUTRANKING RELATIONSHIPS SUITABLE FOR SITUATIONS WITH A HIGH NUMBER OF CRITERIA AND ALTERNATIVES 253 TOPSIS TECHNIQUE FOR ORDER PREFERENCE BY SIMILARITY TO IDEAL SOLUTION CONCEPT IDENTIFIES THE IDEAL AND ANTIIDEAL SOLUTIONS BASED ON THE CRITERIA THEN RANKS ALTERNATIVES BASED ON THEIR PROXIMITY TO THE IDEAL SOLUTION KEY FEATURES SIMPLE AND INTUITIVE APPROACH THAT CONSIDERS BOTH POSITIVE AND NEGATIVE ASPECTS OF ALTERNATIVES SUITABLE FOR SITUATIONS WITH A MIX OF QUANTITATIVE AND QUALITATIVE CRITERIA PROVIDES A CLEAR RANKING OF ALTERNATIVES BASED ON THEIR OVERALL PERFORMANCE 26 APPLICATION OF MCDM MCDM FINDS APPLICATIONS IN A DIVERSE RANGE OF FIELDS INCLUDING BUSINESS AND MANAGEMENT SUPPLIER SELECTION INVESTMENT DECISIONS STRATEGIC PLANNING RESOURCE ALLOCATION ENGINEERING DESIGN OPTIMIZATION PRODUCT DEVELOPMENT PROJECT SELECTION 3 ENVIRONMENTAL MANAGEMENT SITE SELECTION WASTE MANAGEMENT POLLUTION CONTROL HEALTH CARE TREATMENT PLANNING RESOURCE ALLOCATION PATIENT PRIORITIZATION PUBLIC POLICY POLICY EVALUATION RESOURCE ALLOCATION DECISIONMAKING UNDER UNCERTAINTY 27 CASE STUDY SELECTING A NEW SOFTWARE SYSTEM IMAGINE A COMPANY SEEKING TO IMPLEMENT A NEW SOFTWARE SYSTEM TO MANAGE ITS OPERATIONS THE DECISION INVOLVES MULTIPLE CRITERIA SUCH AS COST FUNCTIONALITY EASE OF USE VENDOR SUPPORT AND SECURITY MCDM CAN BE EMPLOYED TO SYSTEMATICALLY EVALUATE DIFFERENT SOFTWARE SYSTEMS BASED ON THESE CRITERIA AND SELECT THE OPTIMAL OPTION 28 CHALLENGES AND LIMITATIONS WHILE POWERFUL MCDM APPROACHES ALSO HAVE SOME LIMITATIONS SUBJECTIVITY THE WEIGHTS AND JUDGMENTS USED IN MCDM OFTEN RELY ON SUBJECTIVE OPINIONS WHICH CAN INTRODUCE BIAS DATA AVAILABILITY ACQUIRING ACCURATE AND COMPLETE DATA FOR ALL CRITERIA AND ALTERNATIVES CAN BE CHALLENGING COMPLEXITY FOR COMPLEX PROBLEMS WITH NUMEROUS CRITERIA AND ALTERNATIVES THE IMPLEMENTATION OF MCDM CAN BECOME COMPUTATIONALLY INTENSIVE 29 CONCLUSION MCDM PROVIDES A VALUABLE FRAMEWORK FOR ADDRESSING COMPLEX DECISION PROBLEMS INVOLVING MULTIPLE CRITERIA BY SYSTEMATICALLY ANALYZING THE CRITERIA ALTERNATIVES AND THEIR RELATIVE IMPORTANCE MCDM HELPS DECISIONMAKERS ARRIVE AT INFORMED AND ROBUST SOLUTIONS AS TECHNOLOGY EVOLVES AND DECISIONMAKING ENVIRONMENTS BECOME INCREASINGLY INTRICATE THE APPLICATION OF MCDM WILL UNDOUBTEDLY CONTINUE TO GROW IN SIGNIFICANCE

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 VORONIN, ALBERT CONSTANTIN ZOPOUNIDIS PETER NIJKAMP THOMAS WESLEY LAUER INSTITUTE OF

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MULTI-CRITERIA DECISION ANALYSIS MULTICRITERIA SCHEDULING MULTICRITERIA OPTIMIZATION MULTI-CRITERIA DECISION MAKING FOR THE MANAGEMENT OF COMPLEX SYSTEMS HANDBOOK OF MULTICRITERIA ANALYSIS MULTIPLE CRITERIA ANALYSIS PREFCALC, A MULTI-CRITERIA DECISION SUPPORT SYSTEM TIMS/ORSA BULLETIN PREFERENCE MODELING MATERIALS, MECHATRONICS AND AUTOMATION INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY COMPUTER AIDED OPTIMUM DESIGN OF STRUCTURES VI WORLD ROAD CONGRESS SELECTED PAPERS ON SENSOR AND DATA FUSION TECHNICAL REPORTS SERIES SOVIET ENGINEERING RESEARCH GEOGRAPHICAL INFORMATION SYSTEMS THEORY OF FUNCTIONS OF A COMPLEX VARIABLE IEEE INTERNATIONAL ENGINEERING MANAGEMENT CONFERENCE TRANSPORTATION RESEARCH RECORD IGOR LINKOV VINCENT T'KINDT NODARI VAKHANIA VORONIN, ALBERT CONSTANTIN ZOPOUNIDIS PETER NIJKAMP THOMAS WESLEY LAUER INSTITUTE OF MANAGEMENT SCIENCES DENIS BOUYSSOU DEHUI ZENG SANTIAGO HERNANDEZ FIROOZ A. SADJADI PAUL LONGLEY ANDREW RUSSELL FORSYTH

ENVIRONMENTAL MANAGEMENT IS OFTEN COMPLICATED AND MULTIDISCIPLINARY AND THE ISSUES THAT ARISE CAN BE DIFFICULT TO SOLVE ANALYTICALLY OFTEN DECISION MAKERS TAKE AD HOC APPROACHES WHICH MAY RESULT IN THE IGNORING OF IMPORTANT STAKEHOLDER OPINIONS OR DECISION CRITERIA MULTI CRITERIA DECISION ANALYSIS MCDA PROVIDES A FRAMEWORK BY WHICH THESE TYPES OF DECISIONS CAN BE MADE BUT DESPITE BEING USED EFFECTIVELY IN MANY FIELDS IT IS NOT OFTEN USED IN ENVIRONMENTAL MANAGEMENT GIVEN THE NOVELTY AND INHERENT APPLICABILITY OF THIS DECISION MAKING FRAMEWORK TO THE ENVIRONMENTAL FIELD THERE IS A NEED FOR MORE TEACHING TOOLS FOR MCDA IN PARTICULAR THERE IS A NEED FOR A CASE STUDY BASED APPROACH TO HELP READERS NAVIGATE THE MANY MCDA METHODS AND DECIDE HOW TO APPLY THEM TO A SPECIFIC CASE THROUGH A COLLECTION OF CASE STUDIES MULTI CRITERIA DECISION ANALYSIS ENVIRONMENTAL APPLICATIONS AND CASE STUDIES GIVES READERS THE TOOLS TO APPLY CUTTING EDGE MCDA METHODS TO THEIR OWN ENVIRONMENTAL PROJECTS IT OFFERS AN OVERVIEW OF THE TYPES OF MCDA AVAILABLE AND A CONCEPTUAL FRAMEWORK OF HOW IT IS APPLIED WITH THE FOCUS ON ITS APPLICABILITY FOR ENVIRONMENTAL SCIENCE TAKING AN IN DEPTH LOOK AT THE CASE OF SEDIMENT MANAGEMENT THE BOOK INTRODUCES DIFFERENT STEPS OF MCDA PROCESSES FROM PROBLEM FORMULATION AND MODEL DEVELOPMENT TO CRITERIA WEIGHING AND ALTERNATIVE SCORING THE AUTHORS THEN EXPLORE THE CASE USING VARIOUS MCDA METHODS WHICH ALLOWS READERS TO SEE CLEARLY HOW THE METHODOLOGIES DIFFER AND GAIN A BETTER UNDERSTANDING OF THE MECHANISTIC OPERATION OF THE ANALYSIS A SERIES OF CASE STUDIES IN NANOTECHNOLOGY COLLECTIVELY DEMONSTRATE THE APPLICATION OF MCDA IN SITUATIONS OF HIGH VARIABILITY AND UNCERTAINTY THAT REQUIRE THE INTEGRATION OF TECHNICAL INFORMATION AND EXPERT JUDGMENT AN AREA WHERE MCDA CLEARLY SHINES THE AUTHORS DESCRIBE MULTIPLE DECISIONS FROM RISK CLASSIFICATION TO VALUE OF INFORMATION ANALYSIS TO THE ASSESSMENT OF POTENTIAL RESEARCH AND FUNDING INVESTMENTS THAT READERS MAY FACE IN DEALING WITH EMERGING ENVIRONMENTAL THREATS DEMONSTRATING THE BROAD APPLICABILITY OF MCDA

METHODS FOR DIFFERENT TYPES OF CASES THE BOOK PRESENTS A SERIES OF CASE STUDIES RANGING FROM OYSTER RESTORATION TO OIL SPILL RESPONSE IN CONJUNCTION WITH THESE CASES THE BOOK ALSO PROVIDES CORRESPONDING DECISION MODELS THAT ARE IMPLEMENTED BY THE DECERNS SOFTWARE AND ALLOW USERS TO EXAMINE THE SAME CASE USING MULTIPLE MCDA TOOLS THE DECERNS SOFTWARE AND MODELS ARE AVAILABLE FOR DOWNLOAD AT CRCPRESS.COM INTENDED BOTH AS A RESEARCH AND TEACHING TOOL THIS BOOK INSPIRES CREATIVE THINKING WHEN APPLYING MCDA TO COMPLICATED ENVIRONMENTAL ISSUES

SCHEDULING AND MULTICRITERIA OPTIMISATION THEORY HAVE BEEN SUBJECT SEPARATELY TO NUMEROUS STUDIES SINCE THE LAST TWENTY YEARS MULTICRITERIA SCHEDULING PROBLEMS HAVE BEEN SUBJECT TO A GROWING INTEREST HOWEVER A GAP BETWEEN MULTICRITERIA SCHEDULING APPROACHES AND MULTICRITERIA OPTIMISATION FIELD EXISTS THIS BOOK IS AN ATTEMPT TO COLLECT THE ELEMENTARY OF MULTICRITERIA OPTIMISATION THEORY AND THE BASIC MODELS AND ALGORITHMS OF MULTICRITERIA SCHEDULING IT IS COMPOSED OF NUMEROUS ILLUSTRATIONS ALGORITHMS AND EXAMPLES WHICH MAY HELP THE READER IN UNDERSTANDING THE PRESENTED CONCEPTS THIS BOOK COVERS GENERAL CONCEPTS SUCH AS PARETO OPTIMALITY COMPLEXITY THEORY AND GENERAL METHOD FOR MULTICRITERIA OPTIMISATION AS WELL AS DEDICATED SCHEDULING PROBLEMS AND ALGORITHMS JUST IN TIME SCHEDULING FLEXIBILITY AND ROBUSTNESS SINGLE MACHINE PROBLEMS PARALLEL MACHINE PROBLEMS SHOP PROBLEMS ETC THE SECOND EDITION CONTAINS REVISIONS AND NEW MATERIAL

MULTI CRITERIA OPTIMIZATION PROBLEMS NATURALLY ARISE IN PRACTICE WHEN THERE IS NO SINGLE CRITERION FOR MEASURING THE QUALITY OF A FEASIBLE SOLUTION SINCE DIFFERENT CRITERIA ARE CONTRADICTORY IT IS DIFFICULT AND OFTEN IMPOSSIBLE TO FIND A SINGLE FEASIBLE SOLUTION THAT IS GOOD FOR ALL THE CRITERIA HENCE SOME COMPROMISE IS NEEDED AS SUCH THIS BOOK EXAMINES THE COMMONLY ACCEPTED COMPROMISE OF THE TRADITIONAL PARETO OPTIMALITY APPROACH IT ALSO PROPOSES ONE NEW ALTERNATIVE APPROACH FOR GENERATING FEASIBLE SOLUTIONS TO MULTI CRITERIA OPTIMIZATION PROBLEMS FINALLY THE BOOK PRESENTS TWO CHAPTERS ON THE EXISTING SOLUTION METHODS FOR TWO REAL LIFE MULTI CRITERIA OPTIMIZATION PROBLEMS

WHILE THERE ARE MANY DIFFERENT MODELS FOR PERFORMING SYSTEM ANALYSIS THE MULTI CRITERIA DECISION MAKING METHOD HAS PROVEN TO BE ONE OF THE MOST EFFICIENT BY ANALYZING THE KEY CONCEPTS OF THIS THEORY THE TECHNIQUE CAN BE ENHANCED AND WILL BENEFIT FUTURE ORGANIZATIONS AND COMPANIES IN NOVEL WAYS MULTI CRITERIA DECISION MAKING FOR THE MANAGEMENT OF COMPLEX SYSTEMS PROVIDES A COMPREHENSIVE EXAMINATION OF THE LATEST STRATEGIES AND METHODS INVOLVED IN DECISION THEORY FEATURING EXTENSIVE COVERAGE ON RELEVANT TOPICS SUCH AS NESTED SCALAR CONVOLUTIONS PARETO OPTIMALITY NONLINEAR SCHEMES AND OPERATOR PERFORMANCE THIS PUBLICATION IS IDEALLY DESIGNED FOR ENGINEERS STUDENTS PROFESSIONALS ACADEMICS AND RESEARCHERS SEEKING INNOVATIVE PERSPECTIVES ON THE SUPERVISION OF ADVANCED DECISION MAKING THEORIES IN SYSTEM ANALYSIS

MULTICRITERIA ANALYSIS IS A RAPIDLY GROWING ASPECT OF OPERATIONS RESEARCH AND MANAGEMENT SCIENCE WITH NUMEROUS PRACTICAL APPLICATIONS IN A WIDE RANGE OF FIELDS THIS BOOK PRESENTS ALL THE RECENT ADVANCES IN MULTICRITERIA ANALYSIS INCLUDING MULTICRITERIA OPTIMIZATION GOAL PROGRAMMING OUTRANKING METHODS AND DISAGGREGATION TECHNIQUES THE LATEST DEVELOPMENTS ON ROBUSTNESS ANALYSIS PREFERENCE ELICITATION AND DECISION MAKING WHEN FACED WITH INCOMPLETE INFORMATION ARE ALSO DISCUSSED TOGETHER WITH APPLICATIONS IN BUSINESS PERFORMANCE EVALUATION FINANCE AND MARKETING FINALLY THE INTERACTIONS OF MULTICRITERIA ANALYSIS WITH OTHER DISCIPLINES ARE ALSO EXPLORED INCLUDING AMONG OTHERS DATA MINING ARTIFICIAL INTELLIGENCE AND EVOLUTIONARY METHODS

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