

AN INTRODUCTION TO DECISION THEORY

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AN TO DECISION THEORY I DECISION THEORY IS A FORMAL FRAMEWORK FOR MAKING OPTIMAL DECISIONS UNDER UNCERTAINTY IT PROVIDES TOOLS TO ANALYZE SITUATIONS WHERE CHOICES HAVE UNCERTAIN OUTCOMES AND HELPS US CHOOSE ACTIONS THAT MAXIMIZE OUR EXPECTED UTILITY THIS INTRODUCTION WILL COVER THE BASIC CONCEPTS PRINCIPLES AND APPLICATIONS OF DECISION THEORY

II FUNDAMENTAL CONCEPTS

DECISION PROBLEM A SITUATION WHERE AN INDIVIDUAL OR ENTITY NEEDS TO MAKE A CHOICE AMONG A SET OF AVAILABLE ACTIONS

STATES OF NATURE POSSIBLE BUT UNCERTAIN EVENTS THAT CAN OCCUR INFLUENCING THE OUTCOME OF EACH ACTION

OUTCOMES THE RESULTS OF TAKING A SPECIFIC ACTION UNDER A GIVEN STATE OF NATURE

UTILITY A NUMERICAL REPRESENTATION OF AN INDIVIDUAL'S PREFERENCES FOR DIFFERENT OUTCOMES REFLECTING THEIR SUBJECTIVE VALUE

EXPECTED UTILITY THE AVERAGE UTILITY EXPECTED FROM AN ACTION CALCULATED BY CONSIDERING THE UTILITIES OF ALL POSSIBLE OUTCOMES AND THEIR RESPECTIVE PROBABILITIES

III PRINCIPLES OF DECISION THEORY

EXPECTED VALUE MAXIMIZATION IN THE FACE OF UNCERTAINTY RATIONAL DECISIONMAKERS CHOOSE THE ACTION THAT MAXIMIZES THEIR EXPECTED UTILITY

SUBJECTIVE PROBABILITY INDIVIDUALS ASSIGN PROBABILITIES TO UNCERTAIN EVENTS BASED ON THEIR PERSONAL BELIEFS AND INFORMATION NOT NECESSARILY OBJECTIVE FREQUENCIES

RISK AVERSION INDIVIDUALS OFTEN PREFER CERTAIN OUTCOMES WITH LOWER UTILITY TO RISKY OUTCOMES WITH POTENTIALLY HIGHER UTILITY BUT ALSO A CHANCE OF LOWER UTILITY

LOSS AVERSION INDIVIDUALS FEEL THE PAIN OF LOSSES MORE STRONGLY THAN THE PLEASURE OF GAINS LEADING TO RISK-AVERSE BEHAVIOR IN THE DOMAIN OF LOSSES

IV TYPES OF DECISION PROBLEMS

DECISION MAKING UNDER CERTAINTY THE OUTCOME OF EACH ACTION IS KNOWN WITH CERTAINTY MAKING THE DECISION STRAIGHTFORWARD

DECISION MAKING UNDER RISK PROBABILITIES OF EACH STATE OF NATURE ARE KNOWN ALLOWING FOR THE CALCULATION OF EXPECTED UTILITIES

DECISION MAKING UNDER UNCERTAINTY PROBABILITIES OF STATES OF NATURE ARE UNKNOWN REQUIRING DECISIONMAKERS TO RELY ON SUBJECTIVE BELIEFS AND HEURISTICS

V KEY TOOLS AND

TECHNIQUES DECISION TREES VISUAL REPRESENTATIONS OF DECISION PROBLEMS ILLUSTRATING ACTIONS STATES OF NATURE AND OUTCOMES EXPECTED VALUE ANALYSIS CALCULATING THE EXPECTED UTILITY OF EACH ACTION BY CONSIDERING THE PROBABILITYWEIGHTED UTILITIES OF ITS POTENTIAL OUTCOMES SENSITIVITY ANALYSIS EXAMINING HOW CHANGES IN INPUT PARAMETERS EG PROBABILITIES UTILITIES AFFECT THE OPTIMAL DECISION BAYESIAN UPDATING ADJUSTING SUBJECTIVE PROBABILITIES IN LIGHT OF NEW INFORMATION IMPROVING DECISIONMAKING UNDER UNCERTAINTY VI APPLICATIONS OF DECISION THEORY BUSINESS RESOURCE ALLOCATION INVESTMENT DECISIONS PRICING STRATEGIES PRODUCT DEVELOPMENT HEALTHCARE TREATMENT CHOICES DIAGNOSTIC TESTING RESOURCE MANAGEMENT FINANCE PORTFOLIO DIVERSIFICATION RISK MANAGEMENT INVESTMENT DECISIONS PUBLIC POLICY POLICY DESIGN RESOURCE ALLOCATION RISK ASSESSMENT PERSONAL DECISION MAKING CAREER CHOICES FINANCIAL PLANNING PERSONAL INVESTMENTS VII LIMITATIONS OF DECISION THEORY RATIONALITY ASSUMPTIONS DECISION THEORY ASSUMES INDIVIDUALS ARE PERFECTLY RATIONAL AND CONSISTENT IN THEIR PREFERENCES WHICH MIGHT NOT ALWAYS HOLD TRUE COGNITIVE BIASES PEOPLE OFTEN MAKE SYSTEMATIC ERRORS IN JUDGMENT LEADING TO DEVIATIONS FROM OPTIMAL DECISIONMAKING ETHICAL CONSIDERATIONS DECISION THEORY DOES NOT DIRECTLY ADDRESS ETHICAL CONSIDERATIONS WHICH ARE CRUCIAL FOR MANY REALWORLD PROBLEMS COMPLEXITY REALWORLD DECISION PROBLEMS CAN BE EXTREMELY COMPLEX REQUIRING SIMPLIFIED MODELS AND APPROXIMATIONS VIII CONCLUSION DECISION THEORY PROVIDES A POWERFUL FRAMEWORK FOR MAKING INFORMED DECISIONS IN UNCERTAIN ENVIRONMENTS BY UNDERSTANDING ITS FUNDAMENTAL CONCEPTS PRINCIPLES AND TOOLS INDIVIDUALS AND ORGANIZATIONS CAN IMPROVE THEIR DECISIONMAKING PROCESSES AND ACHIEVE BETTER OUTCOMES HOWEVER ITS IMPORTANT TO BE AWARE OF THE LIMITATIONS OF DECISION THEORY AND TO CONSIDER 3 ETHICAL AND COGNITIVE FACTORS IN PRACTICAL APPLICATIONS IX FURTHER EXPLORATION BOOKS DECISION MAKING IN THE FACE OF UNCERTAINTY BY HOWARD RAIFFA THE LOGIC OF DECISION BY RICHARD JEFFREY S THE VALUE OF INFORMATION BY DAVID E BELL BEHAVIORAL ECONOMICS A REVIEW BY DANIEL KAHNEMAN AND RICHARD THALER WEBSITES DECISION ANALYSIS SOCIETY WWWDECISIONSCIENCESORG INSTITUTE FOR OPERATIONS RESEARCH AND THE MANAGEMENT SCIENCES INFORMS WWWINFORMSORG THIS INTRODUCTION PROVIDES A FOUNDATIONAL UNDERSTANDING OF DECISION THEORY TO DELVE DEEPER INTO SPECIFIC AREAS EXPLORE THE RECOMMENDED RESOURCES AND

CONTINUE YOUR JOURNEY OF INFORMED DECISIONMAKING

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A COMPREHENSIVE AND ACCESSIBLE INTRODUCTION TO ALL ASPECTS OF DECISION THEORY NOW WITH NEW
 AND UPDATED DISCUSSIONS AND OVER 140 EXERCISES

THIS BEST SELLING AND UP TO DATE SURVEY OF DECISION ANALYSIS CONCEPTS AND TECHNIQUES IS ACCESSIBLE TO STUDENTS WITH LIMITED MATHEMATICAL BACKGROUNDS IT IS DESIGNED FOR ADVANCED UNDERGRADUATE AND MBA LEVEL COURSES IN DECISION ANALYSIS AND ALSO FOR BUSINESS COURSES IN INTRODUCTORY QUANTITATIVE METHODS PREREQUISITES COLLEGE ALGEBRA INTRODUCTORY STATISTICS

THIS TEXT TEACHES THE FUNDAMENTAL IDEAS OF DECISION ANALYSIS WITHOUT THE BURDEN OF EXTENSIVE MATHEMATICAL SKILLS THIS NEW VERSION INCORPORATES AND IMPLEMENTS THE POWERFUL DECISIONTOOLS BY PALISADE CORPORATION THE WORLD S LEADING TOOLKIT FOR RISK AND DECISION ANALYSIS AT THE END OF EACH CHAPTER TOPICS ARE ILLUSTRATED WITH STEP BY STEP INSTRUCTIONS FOR DECISIONTOOLS THE THIRD EDITION ADDS NEW MATERIAL ON VALUING REAL OPTIONS AND ORGANIZATIONAL USE OF DECISION ANALYSIS AND UPDATES ON BEHAVIORAL DECISION THEORY TWELVE CASES FROM THE DARDEN SCHOOL UNIVERSITY OF VIRGINIA HAVE BEEN INCLUDED

INTRODUCTION TO STATISTICAL DECISION THEORY UTILITY THEORY AND CAUSAL ANALYSIS PROVIDES THE THEORETICAL BACKGROUND TO APPROACH DECISION THEORY FROM A STATISTICAL PERSPECTIVE IT COVERS BOTH TRADITIONAL APPROACHES IN TERMS OF VALUE THEORY AND EXPECTED UTILITY THEORY AND RECENT DEVELOPMENTS IN TERMS OF CAUSAL INFERENCE THE BOOK IS SPECIFICALLY DESIGNED TO APPEAL TO STUDENTS AND RESEARCHERS THAT INTEND TO ACQUIRE A KNOWLEDGE OF STATISTICAL SCIENCE BASED ON DECISION THEORY FEATURES COVERS APPROACHES FOR MAKING DECISIONS UNDER CERTAINTY RISK AND UNCERTAINTY ILLUSTRATES EXPECTED UTILITY THEORY AND ITS EXTENSIONS DESCRIBES APPROACHES TO ELICIT THE UTILITY FUNCTION REVIEWS CLASSICAL AND BAYESIAN APPROACHES TO STATISTICAL INFERENCE BASED ON DECISION THEORY DISCUSSES THE ROLE OF CAUSAL ANALYSIS IN STATISTICAL DECISION THEORY

THIS BOOK IS THE MOST PRACTICAL AND THOUGHT PROVOKING STEP BY STEP GUIDE TO MAKING BETTER DECISIONS THAT IS AVAILABLE TODAY PROVEN TECHNIQUES AND SOLID EXPERIENCE ARE THE FOUNDATION FOR THIS CLASSIC TEXT WHICH WAS WRITTEN FOR THE MANAGER AND FOR THE DECISION ANALYSIS PRACTITIONER

CONTAINS TEACHING NOTES AND COMPLETE SOLUTIONS TO ALL THE PROBLEMS IN THE TEXT

HOW TO IMPROVE DECISION MAKING SKILLS IN REALISTIC SITUATIONS AND DO IT IN A REASONABLY NONMATHEMATICAL FASHION DEVELOPS PRACTICAL TECHNIQUES FOR DECIDING UPON THE BEST STRATEGIES IN A VARIETY OF SITUATIONS PROVIDES METHODS FOR REDUCING COMPLEX PROBLEMS TO EASILY DRAWN DECISION DIAGRAMS TREES SUPPORTED BY REAL WORLD EXAMPLES INCLUDES DETAILED CASES THAT EMPLOY THE METHODS DESCRIBED IN THE TEXT EACH CHAPTER CONTAINS ILLUSTRATIVE EXAMPLES AND EXERCISES

DECISION MAKING ARISES WHEN WE WISH TO SELECT THE BEST POSSIBLE COURSE OF ACTION FROM A SET OF ALTERNATIVES WITH ADVANCEMENTS OF THE DIGITAL TECHNOLOGIES IT IS EASY AND ALMOST INSTANTANEOUS TO GATHER A LARGE VOLUME OF INFORMATION AND OR DATA PERTAINING TO A PROBLEM THAT WE WANT TO SOLVE FOR INSTANCE THE WORLD WI WEB IS PERHAPS THE PRIMARY SOURCE OF INFORMATION AND OR DATA THAT WE OFTEN TURN TO WHEN WE FACE A DECISION MAKING PROBLEM HOWEVER THE INFORMATION AND OR DATA THAT WE OBTAIN FROM THE REAL WORLD OFTEN ARE COMPLEX AND COMPRISE VARIOUS KINDS OF NOISE BESIDES REAL WORLD INFORMATION AND OR DATA OFTEN ARE INCOMPLETE AND AMBIGUOUS OWING TO UNCERTAINTIES OF THE ENVIRONMENTS ALL THESE MAKE DECISION MAKING A CHALLENGING TASK TO COPE WITH THE CHALLENGES OF DECISION MAKING SEARCHERS HAVE DESIGNED AND DEVELOPED A VARIETY OF DECISION SUPPORT SYSTEMS TO PROVIDE ASSISTANCE IN HUMAN DECISION MAKING PROCESSES THE MAIN AIM OF THIS BOOK IS TO PROVIDE A SMALL COLLECTION OF TECHNIQUES STEMMED FROM ARTIFICIAL INTELLIGENCE AS WELL AS OTHER COMPLEMENTARY METHODO GIES THAT ARE USEFUL FOR THE DESIGN AND DEVELOPMENT OF INTELLIGENT DECISION SUPPORT SYSTEMS APPLICATION EXAMPLES OF HOW THESE INTELLIGENT DECISION SUPPORT SYSTEMS CAN BE UTILIZED TO HELP TACKLE A VARIETY OF REAL WORLD PROBLEMS IN DIFFERENT MAINS E G BUSINESS MANAGEMENT MANUFACTURING TRANSPORTATION AND FOOD IND TRIES AND BIOMEDICINE ARE ALSO PRESENTED A TOTAL OF TWENTY CHAPTERS WHICH CAN BE BROADLY DIVIDED INTO TWO PARTS I E

THIS THREE VOLUME SET CONSTITUTES THE REFEREED PROCEEDINGS OF THE 14TH INTERNATIONAL CONFERENCE

ON KNOWLEDGE SCIENCE ENGINEERING AND MANAGEMENT KSEM 2021 HELD IN TOKYO JAPAN IN AUGUST 2021 THE 164 REVISED FULL PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 492 SUBMISSIONS THE CONTRIBUTIONS ARE ORGANIZED IN THE FOLLOWING TOPICAL SECTIONS KNOWLEDGE SCIENCE WITH LEARNING AND AI KNOWLEDGE ENGINEERING RESEARCH AND APPLICATIONS KNOWLEDGE MANAGEMENT WITH OPTIMIZATION AND SECURITY

OPERATION RESEARCH IS METHODS WHICH ALLOW US TO PRODUCE AN OPTIMUM PLAN UNDER GIVEN CONDITIONS THIS BOOK IS INTENDED TO HELP THE READERS ESPECIALLY ECONOMISTS AND PLANNERS TO UNDERSTAND THE BASIS OF THESE METHODS

DECISION THEORY AN INTRODUCTION TO DYNAMIC PROGRAMMING AND SEQUENTIAL DECISIONS JOHN BATHER UNIVERSITY OF SUSSEX UK MATHEMATICAL INDUCTION AND ITS USE IN SOLVING OPTIMIZATION PROBLEMS IS A TOPIC OF GREAT INTEREST WITH MANY APPLICATIONS IT ENABLES US TO STUDY MULTISTAGE DECISION PROBLEMS BY PROCEEDING BACKWARDS IN TIME USING A METHOD CALLED DYNAMIC PROGRAMMING ALL THE TECHNIQUES NEEDED TO SOLVE THE VARIOUS PROBLEMS ARE EXPLAINED AND THE AUTHOR S FLUENT STYLE WILL LEAVE THE READER WITH AN AVID INTEREST IN THE SUBJECT TAILORED TO THE NEEDS OF STUDENTS OF OPTIMIZATION AND DECISION THEORY WRITTEN IN A LUCID STYLE WITH NUMEROUS EXAMPLES AND APPLICATIONS COVERAGE OF DETERMINISTIC MODELS MAXIMIZING UTILITIES DIRECTED NETWORKS SHORTEST PATHS CRITICAL PATH ANALYSIS SCHEDULING AND CONVEXITY COVERAGE OF STOCHASTIC MODELS STOCHASTIC DYNAMIC PROGRAMMING OPTIMAL STOPPING PROBLEMS AND OTHER SPECIAL TOPICS COVERAGE OF ADVANCED TOPICS MARKOV DECISION PROCESSES MINIMIZING EXPECTED COSTS POLICY IMPROVEMENTS AND PROBLEMS WITH UNKNOWN STATISTICAL PARAMETERS CONTAINS EXERCISES AT THE END OF EACH CHAPTER WITH HINTS IN AN APPENDIX AIMED PRIMARILY AT STUDENTS OF MATHEMATICS AND STATISTICS THE LUCID TEXT WILL ALSO APPEAL TO ENGINEERING AND SCIENCE STUDENTS AND THOSE WORKING IN THE AREAS OF OPTIMIZATION AND OPERATIONS RESEARCH

THE LARGE AND COMPLEX CHALLENGES THE WORLD IS FACING THE GROWING PREVALENCE OF HUGE DATA SETS

AND THE NEW AND DEVELOPING WAYS FOR ADDRESSING THEM ARTIFICIAL INTELLIGENCE DATA SCIENCE MACHINE LEARNING ETC MEANS IT IS INCREASINGLY VITAL THAT ACADEMICS AND PROFESSIONALS FROM ACROSS DISCIPLINES HAVE A BASIC UNDERSTANDING OF THE MATHEMATICAL UNDERPINNINGS OF EFFECTIVE OPTIMIZED DECISION MAKING WITHOUT IT DECISION MAKERS RISK BEING OVERTAKEN BY THOSE WHO BETTER UNDERSTAND THE MODELS AND METHODS THAT CAN BEST INFORM STRATEGIC AND TACTICAL DECISIONS INTRODUCTION TO OPTIMIZATION BASED DECISION MAKING PROVIDES AN ELEMENTARY AND SELF CONTAINED INTRODUCTION TO THE BASIC CONCEPTS INVOLVED IN MAKING DECISIONS IN AN OPTIMIZATION BASED ENVIRONMENT THE MATHEMATICAL LEVEL OF THE TEXT IS DIRECTED TO THE POST SECONDARY READER OR UNIVERSITY STUDENTS IN THE INITIAL YEARS THE PREREQUISITES ARE THEREFORE MINIMAL AND NECESSARY MATHEMATICAL TOOLS ARE PROVIDED AS NEEDED THIS LEAN APPROACH IS COMPLEMENTED WITH A PROBLEM BASED ORIENTATION AND A METHODOLOGY OF GENERALIZATION REDUCTION IN THIS WAY THE BOOK CAN BE USEFUL FOR STUDENTS FROM STEM FIELDS ECONOMICS AND ENTERPRISE SCIENCES SOCIAL SCIENCES AND HUMANITIES AS WELL AS FOR THE GENERAL READER INTERESTED IN MULTI TRANS DISCIPLINARY APPROACHES FEATURES COLLECTS AND DISCUSSES THE IDEAS UNDERPINNING DECISION MAKING THROUGH OPTIMIZATION TOOLS IN A SIMPLE AND STRAIGHTFORWARD MANNER SUITABLE FOR AN UNDERGRADUATE COURSE IN OPTIMIZATION BASED DECISION MAKING OR AS A SUPPLEMENTARY RESOURCE FOR COURSES IN OPERATIONS RESEARCH AND MANAGEMENT SCIENCE SELF CONTAINED COVERAGE OF TRADITIONAL AND MORE MODERN OPTIMIZATION MODELS WHILE NOT REQUIRING A PREVIOUS BACKGROUND IN DECISION THEORY

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CONCLUSION

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