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Nota di contenuto	Intro -- Preface -- Acknowledgements -- Contents -- Part I Data-Driven Project Management -- 1 About This Book -- 1.1 Theory and Practice -- 1.2 Data and People -- 1.3 Book Outline -- 1.4 Keep Reading -- References -- 2 Each Book Tells a Story -- 2.1 Bookstore -- 2.2 Only a Click Away -- 2.3 Keep Writing -- References -- 3 The Data-Driven Project Manager -- 3.1 Three Components -- 3.2 A Reference Point -- 3.3 The Beauty of Details -- 3.4 Literature (in a Nutshell) -- References -- Part II What Academics Do -- 4 Understanding -- 4.1 Measuring Time -- 4.2 Shedding New Light -- 4.3 Thank You, Tony -- References -- 5 Wisdom -- 5.1 Tolerance Limits -- 5.2 Control Points -- 5.3 Signal Quality -- 5.4 Mission Accomplished -- References -- 6 Learning -- 6.1 Schedule -- 6.2 Risk -- 6.3 Control -- 6.4 Torture -- References -- Part III What Professionals Want -- 7 Control Efficiency -- 7.1 Effort of Control -- Top-Down Project Control -- Bottom-up Project Control -- 7.2 Quality

of Actions -- 7.3 Accuracy Pays Off -- 7.4 Empirical Evidence -- 7.5 The Control Room -- Afterthought -- References -- 8 Analytical Project Control -- 8.1 Project Control Methods (Revisited) -- 8.2 Best of Both Worlds -- 8.3 The Signal (Not the Noise) -- 8.4 Hope and Dream -- References -- 9 Reference Class Forecasting -- 9.1 Outside View -- 9.2 Construction Project (Study 1) -- 9.3 Hybrid Approach (Study 2) -- 9.4 Similarity Properties (Study 3) -- 9.5 Thank You, Bent -- References -- Part IV About Project Data -- 10 Project Data -- 10.1 Where Are We Now? -- 10.2 Two Types of Project Data -- Reference -- 11 Artificial Projects -- 11.1 Random Data -- 11.2 Structured Data -- 11.3 Generating Data -- 11.4 Twilight Zone -- 11.5 Data and Algorithms -- 11.6 Diverse Data -- 11.7 Core Data -- 11.8 Equivalent Data -- 11.9 From a Distance -- 11.10 Final Words -- References -- 12 Progress Data.
12.1 Imagination -- 12.2 Variation Model -- 12.3 Risk Model -- 12.4 Scenario Model -- 12.5 Fiction -- References -- 13 Empirical Projects -- 13.1 Curiosity -- 13.2 Classification -- 13.3 New Library -- 13.4 Reality -- References -- 14 Calibrating Data -- 14.1 Calibrating Data -- 14.2 Partitioning Heuristic -- 14.3 Human Partitioning (the rider) -- 14.4 Automatic Partitioning (the horse) -- 14.5 Calibration Results -- 14.6 Conclusion -- References -- 15 More Data -- 15.1 Resources -- 15.2 Modes -- 15.3 Subgraphs -- 15.4 Skills -- 15.5 Reality -- 15.6 Portfolio -- References -- Part V Afterword -- 16 The Perfect Researcher -- 16.1 Doubt -- 16.2 Ignorance -- 16.3 Wildness -- 16.4 Serendipity -- References -- A Operations Research &amp -- Scheduling Group -- B Earned Value Management (Glossary) -- C Properties of Similarity -- D Patterson Format -- E Network and Resource Indicators -- F Network Resources = NetRes -- G Example Project Card -- H OR&amp -- S Project Datasets -- References.

Sommario/riassunto

This book comprehensively assesses the growing importance of project data for project scheduling, risk analysis and control. It discusses the relevance of project data for both researchers and professionals, and illustrates why the collection, processing and use of such data is not as straightforward as most people think. The theme of this book is known in the literature as data-driven project management and includes the discussion of using computer algorithms, human intuition, and project data for managing projects under risk. The book reviews the basic components of data-driven project management by summarizing the current state-of-the-art methodologies, including the latest computer and machine learning algorithms and statistical methodologies, for project risk and control. It highlights the importance of artificial project data for academics, and describes the specific requirements such data must meet. In turn, the book discusses a wide variety of statistical methods available to generate these artificial data and shows how they have helped researchers to develop algorithms and tools to improve decision-making in project management. Moreover, it examines the relevance of project data from a professional standpoint and describes how professionals should collect empirical project data for better decision-making. Finally, the book introduces a new approach to data collection, generation, and analysis for creating project databases, making it relevant for academic researchers and professional project managers alike.

2. Record Nr. UNINA9910726277803321

Autore	Soltanifar Mehdi
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Nota di contenuto	Basic concepts of voting -- Preferential voting based on data envelopment analysis -- Group preferential voting -- Applications of preferential voting in industry and society.
Sommario/riassunto	This book presents the theory and application of the models presented in this regard and establishes a meaningful relationship between data envelopment analysis and multi-attribute decision making. The issue of "choice" using the aggregation of voters' votes is one of the most important group decision-making issues that are always considered by decision makers in electoral systems. Voting is a method of group decision making in a democratic society that expresses the will of the majority. Voting is perhaps the simplest way to gather the opinions of

experts, and this ease of application has made it a multi-attribute decision-making method in group decisions. Preferential voting is a type of voting that may refer to electoral systems or groups of the electoral system. In preferential voting, voters vote for multiple candidates, and how the candidates are arranged on the ballot is important. Researchers have made many efforts to provide models of voter aggregation, and one of the bestresults of these efforts is the aggregation of votes based on the policy of data envelopment analysis. Thus, in group decisions, the opinions of experts are obtained in a simple structure and consolidated in an interactive and logical structure, and the results can be a powerful tool for decision support. This book provides a complete set of voting models based on data envelopment analysis and expressing its various applications in industry and society. However, most decision-making methods do not use the opinions of experts or reduce the motivation of experts to participate in complex interactions and time, while voting methods do not have this shortcoming. This book is suitable for graduate students in the fields of industrial management, business management, industrial engineering, applied mathematics, and economics. It can also be a good source for researchers in decision science, decision support systems, data envelopment analysis, supply chain management, healthcare management, and others. The methods presented in this book can not only offer a comprehensive framework for solving the problems of these areas but also can inspire researchers to pursue new innovative hybrid methods.