1. Record Nr. UNINA990009796700403321

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Titolo Formation and properties of clay-polymer complexes / B. K. G. Theng

Pubbl/distr/stampa Amsterdam : Elsevier, 2012

ISBN 9780444533548

Edizione [2nd ed.]

Descrizione fisica xvi, 511 p. : ill. ; 23 cm

Collana Developments in clay science ; 4

Disciplina 549.6

Locazione FAGBC

Collocazione 60 549.6 B 4

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Record Nr. UNISALENTO991002593759707536 Autore Collins, John N. Titolo Diakonia: re-interpreting the Ancient Sources / by John N. Collins Oxford; New York: Oxford University Press, 1990 Pubbl/distr/stampa **ISBN** 0195060679 Descrizione fisica XV, 368 p.; 24 cm. Disciplina 262.14 Soggetti Religione cristiana antica Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Record Nr. UNINA9910726277803321 Autore Soltanifar Mehdi Titolo Preferential Voting and Applications: Approaches Based on Data Envelopment Analysis / / by Mehdi Soltanifar, Hamid Sharafi, Farhad Hosseinzadeh Lotfi, Witold Pedrycz, Tofigh Allahviranloo Cham: .: Springer International Publishing: .: Imprint: Springer. . Pubbl/distr/stampa 2023 **ISBN** 9783031304033 9783031304026 Edizione [1st ed. 2023.]

Descrizione fisica 1 online resource (190 pages)

Collana Studies in Systems, Decision and Control, , 2198-4190; ; 471

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Disciplina 324.90015195

Soggetti Computational intelligence

> Artificial intelligence Operations research Computational Intelligence Artificial Intelligence

Operations Research and Decision Theory

Lingua di pubblicazione Inglese Formato Materiale a stampa Livello bibliografico Monografia Basic concepts of voting -- Preferential voting based on data Nota di contenuto 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,

innovative hybrid methods.

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