

1. Record Nr.	UNINA9910156337003321
Titolo	Advances in Efficiency and Productivity // edited by Juan Aparicio, C. A. Knox Lovell, Jesus T. Pastor
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VI, 415 p. 65 illus., 36 illus. in color.)
Collana	International Series in Operations Research & Management Science, , 0884-8289 ; ; 249
Disciplina	330.015195
Soggetti	Econometrics Production management Operations Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Chapter 1. Editors' Introduction -- Chapter 2. The Reverse Directional Distance Function -- Chapter 3. On Measuring Technological Possibilities by Hypervolumes -- Chapter 4. Loss Distance Functions and Profit Function: General Duality Results -- Chapter 5. Exact Relationships between Fisher Indexes and Theoretical Indexes -- Chapter 6. Productivity Interpretations of the Farrell Efficiency Measures and the Malmquist Index and its Decomposition -- Chapter 7. On the use of DEA Models with Weight Restrictions for Benchmarking and Target Setting -- Chapter 8. Endogenous Common Weights as a Collusive Instrument in Frontier-Based Regulation -- Chapter 9. A Parameterized Scheme of Metaheuristics to Solve NP-Hard Problems in Data Envelopment Analysis -- Chapter 10. Producing Innovations: Determinants of Innovativity and Efficiency -- Chapter 11. Potential Coopetition and Productivity among European Automobile Plants -- Chapter 12. Measuring Eco-Efficiency using the Stochastic Frontier Analysis Approach -- Chapter 13. Bankruptcy Prediction of Companies in the Retail-Apparel Industry Using Data Envelopment Analysis -- Chapter 14. Banking Crises, Early Warning Models, and Efficiency -- Chapter 15. A Decomposition of the Energy Intensity Change in Spanish

Sommario/riassunto

This book grows from a conference on the state of the art and recent advances in Efficiency and Productivity. Papers were commissioned from leading researchers in the field, and include eight explorations into the analytical foundations of efficiency and productivity analysis. Chapters on modeling advances include reverse directional distance function, a new method for estimating technological production possibilities, a new distance function called a loss distance function, an analysis of productivity and price recovery indices, the relation of technical efficiency measures to productivity measures, the implications for benchmarking and target setting of imposing weight restrictions on DEA models, weight restrictions in a regulatory setting, and the Principle of Least Action. Chapters on empirical applications include a study of innovative firms that use innovation inputs to produce innovation outputs, a study of the impact of potential “coopetition” or cooperation among competitors on the financial performance of European automobile plants, using SFA to estimate the eco-efficiency of dairy farms in Spain, a DEA bankruptcy prediction model, a combined stochastic cost frontier analysis model/mixture hazard model, the evolution of energy intensity in nine Spanish manufacturing industries, and the productivity of US farmers as they age.

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