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   Nota di bibliografia   Includes bibliographical references at the end of each chapters.

   Nota di contenuto   Chapter 1. Performance Evaluation of Parfois Retailing Stores: Maria Emília Dias Alves and Maria C. A. Silva Portela -- Chapter 2. Optimization Clustering Techniques on Register Unemployment Data: Carlos Balsa, Alcina Nunes and Elisa Barros -- Chapter 3. Web Based Application for Home Care Visits' Optimization of Health Professionals' Teams of Health Centers: Bruno Bastos, Tiago Heleno, António Trigo and Pedro Martins -- Chapter 4. Cell-Free Layer Measurements in a Network with Bifurcating Microchannels using a Global Approach: David Bento, Diana Pinho, Ana I. Pereira and Rui Lima -- Chapter 5. Computational Comparison of Algorithms for a Generalization of the Node-Weighted Steiner Tree and Forest Problems: Raul Brás, J. Orestes

Cerdeira -- Chapter 6. Development of a Numerically Efficient Biodiesel Decanter Simulator: Ana S. R. Brásio, Andrey Romanenko and Natércia C. P. Fernandes -- Chapter 7. Determination of (0,2)Regular Sets in Graphs and Applications: Domingos M. Cardoso, Carlos J. Luz and Maria F. Pacheco -- Chapter 8. A Multiobjective Electromagnetism-Like Algorithm with Improved Local Search: Experiments and Comparison: Pedro Carrasqueira, Maria João Alves and Carlos Henggeler Antunes -- Chapter 9. A Routing/Assignment Problem in Garden Maintenance Services: J. Orestes Cerdeira, Manuel Cruz and Ana Moura -- Chapter 10. A Column Generation Approach to the Discrete Lot Sizing and Scheduling Problem on Parallel Machines: António J.S.T. Duarte and J.M.V. Valério de Carvalho -- Chapter 11. A Tool to Manage Tasks of R&D Projects: Joana Fialho, Pedro Godinho and João Paulo Costa -- Chapter 12. An Exact and a Hybrid Approach for a Machine Scheduling Problem with Job Splitting: Luís Florêncio, Carina Pimentel and Filipe Alvelos -- Chapter 13. Testing Regularity on Linear Semidefinite Optimization Problems: Eloísa Macedo -- Chapter 14. Decompositions and a Matheuristic for a Forest Harvest Scheduling Problem: Isabel Martins, Filipe Alvelos and Miguel Constantino -- Chapter 15. A Routing and Waste Collection Case-Study: Karine Martins, Maria Cândida Mourão, Leonor Santiago Pinto -- Chapter 16. Exact Solutions to the Short Sea Shipping Distribution Problem: Ana Moura and Jorge Oliveira -- Chapter 17. A Consumption-Investment Problem with a Diminishing Basket of Goods: Abdelrahim S. Mousa, Diogo Pinheiro and Alberto A. Pinto -- Chapter 18. Assessing Technical and Economic Efficiency of the Artisanal Dredge Fleet in the Portuguese West Coast: M.M. Oliveira, A.S. Camanho and M.B. Gaspar -- Chapter 19. Production Planning of Perishable Food Products by Mixed-Integer Programming: Maria João Pires, Pedro Amorim, Sara Martins and Bernardo Almada-Lobo -- Chapter 20. Sectors and Routes in Solid Waste Collection: Ana M. Rodrigues and J. Soeiro Ferreira -- Chapter 21. Solving Multilocal Optimization Problems with Parallel Stretched Simulated Annealing: José Rufino and Ana I. Pereira -- Chapter 22. Efficiency and Productivity Assessment of Wind Farms: Clara Bento Vaz and Ângela Paula Ferreira -- Chapter 23. Multi-Period and Multi-Product Inventory Management Model with Lateral Transshipments: Joaquim Jorge Vicente, Susana Relvas, Ana Barbosa-Póvoa -- Chapter 24. Periodic Versus Non-Periodic Multipurpose Batch Plant Scheduling: a Paint Industry Case Study: Miguel Vieira, Tânia Pinto-Varela and Ana Paula Barbosa-Póvoa.

| Sommario/riassunto | This volume presents selected contributions by top researchers in the field of operations research, originating from the XVI Congress of APDIO. It provides interesting findings and applications of operations research methods and techniques in a wide variety of problems. The contributions address complex real-world problems, including inventory management with lateral transshipments, sectors and routes in solid-waste collection and production planning for perishable food products. It also discusses the latest techniques, making the volume a valuable tool for researchers, students and practitioners who wish to learn about current trends. Of particular interest are the applications of nonlinear and mixed-integer programming, data envelopment analysis, clustering techniques, hybrid heuristics, supply chain management and lot sizing, as well as job scheduling problems. This biennial conference, organized by APDIO, the Portuguese Association of Operational Research, held in Bragança, Portugal, in June 2013, presented a perfect opportunity to discuss the latest development in this field and to narrow the gap between academic researchers and practitioners. |