

1. Record Nr.	UNINA9910438027303321
Titolo	Models, algorithms, and technologies for network analysis : proceedings of the second International Conference on Network Analysis // Boris I. Goldengorin, Valery A. Kalyagin, Panos M. Pardalos, editors
Pubbl/distr/stampa	New York : , : Springer, , 2013
ISBN	1-4614-8588-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (xiv, 217 pages) : illustrations (some color)
Collana	Springer Proceedings in Mathematics & Statistics, , 2194-1009 ; ; 59
Disciplina	003 511.6
Soggetti	System analysis - Data processing System analysis - Mathematical models Mathematical optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2194-1009." "ISSN: 2194-1017 (electronic)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Models, Algorithms, and Technologies for Network Analysis (V.A. Kalyagin, B. Goldengorin, P.M. Pardalos) -- Tolerance-Based vs. Cost-Based Branching for the Asymmetric Capacitated Vehicle Routing Problem (M. Batsyn, B. Goldengorin, A. Kocheturov, P.M. Pardalos) -- Lower and Upper Bounds for the Preemptive Single Machine Scheduling Problem with Equal Processing Times (M. Batsyn, B. Goldengorin, P. Sukhov, P.M. Pardalos) -- Comparative Analysis of Two Similarity Measures for the Market Graph Construction (G. A. Bautin, V.A. Kalyagin, A.P. Koldanov) -- Heuristic Algorithm for the Cell Formation Problem (I. Bychkov, M. Batsyn, P. Sukhov, P.M. Pardalos) -- Efficiency Analysis of Branch Network (P.A. Koldanov) -- EEG Coherence in Right- and Left-Handers in Passive Visual Perception of Lines with Different Slope Angles (L.M. Viktorovich) -- Speeding Up MCS Algorithm for the Maximum Clique Problem with ILS Heuristic and Other Enhancements (E. Maslov, M. Batsyn, P.M. Pardalos) -- Summary and Semi-Average Similarity Criteria for Individual Clusters (B. Mirkin) -- Kernel Principal Component Analysis: Applications, Implementation, and Comparison

(D. Olsson, P. Georgiev, V. Boginski, A. Sorokin, P.M. Pardalos) -- Distance-Based Clique Relaxations in Networks: s-Clique and s-Club (S. Shahinpour, S. Butenko) -- GRASP with Path-Relinking for Facility Layout (R.M.A. Silva, M.G.C. Resende, P.M. Pardalos, G.R. Mateus, G. De Tomi) -- Comparative Analysis of the BRIC Countries Stock Markets Using Network Approach (A. Vizgunov, A. Glotov, P.M. Pardalos) -- Sensor Cover and Double Partition (L. Wu, W. Wu, L. Lu, Y. Zhu, D.-Z. Du).

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Sommario/riassunto

This volume contains two types of papers—a selection of contributions from the “Second International Conference in Network Analysis” held in Nizhny Novgorod on May 7–9, 2012, and papers submitted to an "open call for papers" reflecting the activities of LATNA at the Higher School for Economics. This volume contains many new results in modeling and powerful algorithmic solutions applied to problems in • vehicle routing • single machine scheduling • modern financial markets • cell formation in group technology • brain activities of left- and right-handers • speeding up algorithms for the maximum clique problem • analysis and applications of different measures in clustering The broad range of applications that can be described and analyzed by means of a network brings together researchers, practitioners, and other scientific communities from numerous fields such as Operations Research, Computer Science, Bioinformatics, Medicine, Transportation, Energy, Social Sciences, and more. The contributions not only come from different fields, but also cover a broad range of topics relevant to the theory and practice of network analysis. Researchers, students, and engineers from various disciplines will benefit from the state-of-the-art in models, algorithms, technologies, and techniques including new research directions and open questions.

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