1. Record Nr. UNISA996538665403316

Autore	Khachay Michael
Titolo	Mathematical Optimization Theory and Operations Research [[electronic resource]] : 22nd International Conference, MOTOR 2023, Ekaterinburg, Russia, July 2–8, 2023, Proceedings / / edited by Michael Khachay, Yury Kochetov, Anton Eremeev, Oleg Khamisov, Vladimir Mazalov, Panos Pardalos
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-35305-6
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (459 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 13930
Altri autori (Persone)	KochetovYury EremeevAnton KhamisovOleg MazalovVladimir PardalosPanos
Disciplina	519.6
Soggetti	Mathematical optimization Data structures (Computer science) Information theory Artificial intelligence Application software Signal processing Discrete mathematics Discrete Optimization Data Structures and Information Theory Artificial Intelligence Computer and Information Systems Applications Signal, Speech and Image Processing Discrete Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Invited papers -- General equilibrium models in production networks with substitution of inputs -- Mathematical programming and

applications -- On decentralized nonsmooth optimization -- Byzantine-robust loopless stochastic variance-reduced gradient -- Semi-supervised k-means clustering via DC programming approach -- On the uniqueness of identification the thermal conductivity and heat capacit of substance -- On the uniqueness of identification the thermal conductivity and heat capacity of substance -- Discrete and combinatorial optimization -- Constant-factor approximation algorithms for some maximin multiclustering problems -- Aggregation tree construction using hierarchical structures -- Enumeration and unimodular equivalence of empty delta-modular simplices -- PTAS for p-means q-medoids r-given clustering problem -- Nested (2,3)-instances of the Cutting Stock Problem -- Stochastic optimization -- On the resource allocation problem to increase reliability of transport systems -- Distributionally robust optimization by probability criterion for estimating a bounded signal -- Scheduling -- Approximation algorithms for two-machine proportionate routing open shop on a tree -- MIP heuristics for a resource constrained project scheduling problem with workload stability constraints -- Hybrid evolutionary algorithm with optimized operators for total weighted tardiness problem -- Game theory -- Equilibrium arrivals to preemptive queueing system with fixed reward for completing request -- On optimal positional strategies in fractional optimal control problems -- On a single-type differential game of retention in a ring -- Harmonic numbers in Gambler's Ruin Problem -- Exploitation and recovery periods in dynamic resource management problem -- Trade-off mechanism to sustain cooperation in pollution reduction -- Communication restriction-based characteristic function in differential games on networks -- Optimal control and mathematical economics -- Guaranteed expectation of the flock position with random distribution of items -- Method for solving a differential inclusion with a subdifferentiable support function of the right-hand side -- Approximate solution of small-time control synthesis problem based on linearization -- A Priori Estimates of the Objective Function in the Speed-in-Action Problem for a Linear Two-Dimensional Discrete-Time System -- An approach to solving input reconstruction problems in stochastic differential equations: dynamic algorithms and tuning their parameters -- Mathematical modeling of the household behavior on the labor market -- Visual positioning of a moving object using multi-objective control algorithm.

Sommario/riassunto

This book constitutes the refereed proceedings of the 22nd International Conference on Mathematical Optimization Theory and Operations Research, MOTOR 2023, held in Ekaterinburg, Russia, during July 2–8, 2023. The 28 full papers and 1 short paper included in this book were carefully reviewed and selected from 89 submissions. They were organized in topical sections as follows: Mathematical programming and applications; discrete and combinatorial optimization; stochastic optimization; scheduling; game theory; and optimal control and mathematical economics. The book also contains one invited talk in full paper length. .

2. Record Nr. UNINA9910790045403321

Titolo	Metallic systems : a quantum chemist's perspective / / edited by Thomas C. Allison, Orkid Coskuner, Carlos A. Gonzalez
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press, , 2011
ISBN	0-429-13823-7 1-4200-6086-4
Descrizione fisica	1 online resource (412 p.)
Altri autori (Persone)	AllisonThomas Clayton CoskunerOrkid GonzalezCarlos A
Disciplina	669/.94
Soggetti	Metals Quantum chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Introduction; Contributors; Chapter 1: First Principles DFT Studies of Metal-Based Biological and Biomimetic Systems; Chapter 2: Structural and Thermodynamic Studies of a-Synuclein Proteins Related to Parkinson's Disease: Impact of Aqueous Solut; Chapter 3: Carbohydrate and Trivalent Iron Ion Interactions in the Gas Phase and in Aqueous Solution; Chapter 4: Aqueous Solutions of Metal Ions; Chapter 5: Structure of Liquid Metal Surfaces: A First Principles Perspective Chapter 6: Some Practical Considerations for Density Functional Theory Studies of Chemistry at Metal SurfacesChapter 7: Computational Investigations of Metal Oxide Surfaces; Chapter 8: Tight Binding Methods for Metallic Systems; Chapter 9: Density Functional Calculations of Metal Clusters: Structure, Dynamics, and Reactivity; Chapter 10: Density Functional Theory Calculations on Cobalt and Platinum Transition Metal Clusters; Chapter 11: Exploring the Borderland between Physics and Chemistry: Theoretical Methods in the Study of Atomic Clusters; Back Cover
Sommario/riassunto	Metallic systems are ubiquitous in daily life. They play key roles, for example, in the chemistry of many biomolecules, ionic solutions,

nanoparticles, and catalytic processes. They may be in solid, liquid, or gaseous form. The interactions of other molecules with metal surfaces are of considerable importance. Each of these topics is addressed in Metallic Systems. As we have entered the age where theoretical approaches are sufficiently mature to complement and guide experiments in many areas, an understanding of the theoretical tools and approaches to studying metallic syst