

1. Record Nr.	UNISA996549467803316
Titolo	Numerical fluid dynamics : methods and computations / / edited by Dia Zeidan [and three others]
Pubbl/distr/stampa	Singapore : , : Springer, , [2022] ©2022
ISBN	981-16-9665-9 981-16-9664-0
Descrizione fisica	1 online resource (323 pages) : illustrations (some color)
Collana	Forum for Interdisciplinary Mathematics
Disciplina	405
Soggetti	Fluid dynamics Numerical analysis Dinàmica de fluids Anàlisi numèrica Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Structure Functions for Numerical Shocks (Au: L.G. Margolin and S.D. Ramsey) 2. Generalized Probability Density Function of the Solution to the Random Burgers Riemann Problem (Au: Juan Carlos Cortes and Marc Jornet) 3. Semi-analytical and Numerical study on Equatorial Rossby Solitary Waves under Non-traditional Approximation (Au: Ruigang Zhang , Quansheng Liu, and Liangui Yang) 4. High-Order Polynomial Recovery in Finite Element Advection Schemes (Au: Denise Vogel and Oswald Knoth) 5. Breakdown of Morphing Continuum Approach for Flows Under Translational Nonequilibrium. (Au: Jiamiao Sun, Mohamad Ibrahim Cheikh, Pedram Pakseresht, Mikel Aghachi, and James Chen) 6. Dynamics of Oscillatory Fluid Flow inside an Elastic Human Airway Hyperbolic Balance Laws: Residual Distribution, Local and Global Fluxes (Au: Remi Abgrall and Mario Ricchiuto) 7. An Energy-splitting High-order Numerical Method for Multi-material Flows (Au: Xin Lei and Jiequan Li) 8. An ADER-LSTDG Scheme for the Numerical Simulation of a Global Climate Model9. Efficient Experimental and Numerical Methods for Solving Vertical Distribution of Sediments in

Sommario/riassunto

This book contains select invited chapters on the latest research in numerical fluid dynamics and applications. The book aims at discussing the state-of-the-art developments and improvements in numerical fluid dynamics. All the chapters are presented for approximating and simulating how these methods and computations interact with different topics such as shock waves, non-equilibrium single and two-phase flows, elastic human-airway, and global climate. In addition to the fundamental research involving novel types of mathematical sciences, the book presents theoretical and numerical developments in fluid dynamics. The contributions by well-established global experts in fluid dynamics have brought different features of numerical fluid dynamics in a single book. The book serves as a useful resource for high-impact advances involving computational fluid dynamics, including recent developments in mathematical modelling, numerical methods such as finite volume, finite difference and finite element, symbolic computations, and open numerical programs such as OpenFOAM software. The book addresses interdisciplinary topics in industrial mathematics that lie at the forefront of research into new types of mathematical sciences, including theory and applications. This book will be beneficial to industrial and academic researchers, as well as graduate students, working in the fields of natural and engineering sciences. The book will provide the reader highly successful materials and necessary research in the field of fluid dynamics.

2. Record Nr.	UNINA9910483932303321
Titolo	Internet and Network Economics : 5th International Workshop, WINE 2009, Rome, Italy, December 14-18, 2009, Proceedings // edited by Stefano Leonardi
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-280-38338-0 9786613561305 3-642-10841-5
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XIII, 642 p.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI, , 2946-1642 ; ; 5929
Classificazione	85.20
Altri autori (Persone)	LeonardiS (Stefano)
Disciplina	004n/a
Soggetti	Information storage and retrieval systems Discrete mathematics Public administration Application software Computers and civilization Information technology - Management Information Storage and Retrieval Discrete Mathematics Public Administration Computer and Information Systems Applications Computers and Society Computer Application in Administrative Data Processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Ad Exchanges: Research Issues -- Adaptive Learning in Systems of Interacting Agents -- Quantifying Outcomes in Games -- Regular Papers -- Competitive Routing over Time -- On 2-Player Randomized Mechanisms for Scheduling -- On Stackelberg Pricing with Computationally Bounded Consumers -- On Best Response Dynamics in Weighted Congestion Games with Polynomial Delays -- Parametric

Packing of Selfish Items and the Subset Sum Algorithm -- An Online Multi-unit Auction with Improved Competitive Ratio -- Prediction Mechanisms That Do Not Incentivize Undesirable Actions -- Pricing Strategies for Viral Marketing on Social Networks -- Consistent Continuous Trust-Based Recommendation Systems -- The Stackelberg Minimum Spanning Tree Game on Planar and Bounded-Treewidth Graphs -- Tighter Bounds for Facility Games -- Degrees of Guaranteed Envy-Freeness in Finite Bounded Cake-Cutting Protocols -- Approximate Pure Nash Equilibria via Lovász Local Lemma -- Externalities in Keyword Auctions: An Empirical and Theoretical Assessment -- Covering Games: Approximation through Non-cooperation -- Contract Auctions for Sponsored Search -- Bidding for Representative Allocations for Display Advertising -- Social Networks and Stable Matchings in the Job Market -- Maximizing the Minimum Load: The Cost of Selfishness -- Competitive Repeated Allocation without Payments -- Pseudonyms in Cost-Sharing Games -- Computing Optimal Contracts in Series-Parallel Heterogeneous Combinatorial Agencies -- Nash Equilibria for Voronoi Games on Transitive Graphs -- Selfish Scheduling with Setup Times -- Computational Aspects of Multimarket Price Wars -- The Impact of Social Ignorance on Weighted Congestion Games -- The Complexity of Models of International Trade -- The Geometry of Truthfulness -- Optimal Incentives for Participation with Type-Dependent Externalities -- Nash Dynamics in Congestion Games with Similar Resources -- Online Ad Assignment with Free Disposal -- Truthful and Quality Conscious Query Incentive Networks -- An Analysis of Troubled Assets Reverse Auction -- Direction Preserving Zero Point Computing and Applications -- Short Papers -- Continuity Properties of Equilibria in Some Fisher and Arrow-Debreu Market Models -- Route Distribution Incentives -- Wiretapping a Hidden Network -- Refining the Cost of Cheap Labor in Set System Auctions -- On the Power of Mediators -- Strong Nash Equilibria in Games with the Lexicographical Improvement Property -- A Note on Strictly Competitive Games -- The Efficiency of Fair Division -- Sequential Bidding in the Bailey-Cavallo Mechanism -- Subsidized Prediction Markets for Risk Averse Traders -- Envy, Multi Envy, and Revenue Maximization -- Nudging Mechanisms for Technology Adoption -- Mechanism Design for Complexity-Constrained Bidders -- Priority Right Auction for Komi Setting -- Randomized Online Algorithms for the Buyback Problem -- Envy-Free Allocations for Budgeted Bidders -- On the Inefficiency Ratio of Stable Equilibria in Congestion Games -- Betting on the Real Line -- Characterization of Strategy-Proof, Revenue Monotone Combinatorial Auction Mechanisms and Connection with False-Name-Proofness -- 2D-TUCKER Is PPAD-Complete -- Bidder Optimal Assignments for General Utilities -- A New Ranking Scheme of the GSP Mechanism with Markovian Users -- Mediated Equilibria in Load-Balancing Games -- On the Impact of Strategy and Utility Structures on Congestion-Averse Games -- On Strong Equilibria in the Max Cut Game -- Stability and Convergence in Selfish Scheduling with Altruistic Agents -- Gaming Dynamic Parimutuel Markets -- News Posting by Strategic Users in a Social Network -- Erratum -- Erratum to: Prediction Mechanisms That Do Not Incentivize Undesirable Actions.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th International Workshop on Internet and Network Economics, WINE 2009, held in Rome, Italy, in December 2009. The 34 regular and 29 short revised full papers presented together with 3 invited talks were carefully reviewed and selected from 142 submissions. The papers address various topics in theoretical computer science, networking and security,

economics, mathematics, sociology, and management sciences devoted to the analysis of problems arising in the internet and the worldwide Web, such as auction algorithms, computational advertising, general and majority equilibrium, coalitions, collective action, economics aspects of security and privacy in distributed and network computing, algorithmic design and game theory, information economics, network games, price dynamics, and social networks.
