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Titolo	Computational Science – ICCS 2020 [[electronic resource]] : 20th International Conference, Amsterdam, The Netherlands, June 3–5, 2020, Proceedings, Part II // edited by Valeria V. Krzhizhanovskaya, Gábor Závodszy, Michael H. Lees, Jack J. Dongarra, Peter M. A. Sloot, Sérgio Brissos, João Teixeira
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Descrizione fisica	1 online resource (xix, 697 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12138
Disciplina	004
Soggetti	Computer science Computer engineering Computer networks Artificial intelligence Computer science—Mathematics Database management Theory of Computation Computer Engineering and Networks Artificial Intelligence Mathematics of Computing Database Management System
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	ICCS Main Track -- Modified binary tree in the fast PIES for 2D problems with complex shapes -- Generating Random Floating-Point Numbers by Dividing Integers: a Case Study -- An eective stable numerical method for integrating highly oscillating functions with a linear phase -- Fitting Penalized Logistic Regression Models using QR Factorization -- Uncertainty Quantification in Fractional Stochastic Integro-Dierential Equations using Legendre Wavelet Collocation Method -- A Direct High-order Curvilinear Triangular Mesh Generation

Method Using an Advancing Front Technique -- Data-driven partial differential equations discovery approach for the noised multi-dimensional data -- Preconditioning Jacobian Systems by Superimposing Diagonal Blocks -- NURBS curves in parametric integral equations system for modeling and solving boundary value problems in elasticity -- Parameterizations and Lagrange Cubics for Fitting Multidimensional Data -- Loop Aggregation for Approximate Scientific Computing -- Numerical Computation for a Flow Caused by a High-speed Traveling Train and a Stationary Overpass -- Bezier surfaces for modeling inclusions in PIES -- Impact of water on methane adsorption in nanopores: A hybrid GCMC-MD simulation study -- A stable discontinuous Galerkin based isogeometric residual minimization for the Stokes problem -- Numerical Modeling of the Two-Phase Flow of Water with Ice in the Tom River -- Remarks on Kaczmarz algorithm for solving consistent and inconsistent system of linear equations -- Investigating the Benefit of FP16-enabled Mixed-precision Solvers for Symmetric Positive Definite Matrices using GPUs -- Simulation versus ordered fuzzy numbers driven approach to multi depot vehicle cyclic routing and scheduling problem -- Epigenetic modification of genetic algorithm -- ITP-KNN: Encrypted Video Flow Identification Based on the Intermittent Traffic Pattern of Video and K-Nearest Neighbors Classification -- DeepAD-a Joint Embedding Approach for Anomaly Detection on Attributed Networks -- SciNER: Extracting Named Entities From Scientific Literature -- GPU-embedding of kNN-graph representing large and high-dimensional data -- Evolving Long Short-Term Memory Networks -- Personality Recognition from Source Code Based on Lexical, Syntactic and Semantic Features -- Data fitting by exponential sums with equal weights -- A Combination of Moment Descriptors, Fourier Transform and Matching Measures for Action Recognition Based on Shape -- Improving accuracy and speeding up Document Image Classification through parallel systems -- Computation of the airborne contaminant transport in urban area by the artificial neural network -- Exploring Musical Structure using Tonnetz Lattice Geometry and LSTMs -- Modeling of Anti-tracking Network based on Convex-polytope Topology -- A Workload Division Differential Privacy Algorithm to Improve the Accuracy for Linear Computations -- On the Automated Assessment of Open-Source Cyber Threat Intelligence Sources -- Malicious Domain Detection Based on K-means and SMOTE -- Microservice Disaster Crash Recovery: A Weak Global Referential Integrity Management -- Hashing Based Prediction for Large-Scale Kernel Machine -- Picking Peaches or Squeezing Lemons: Selecting Crowdsourcing Workers for Reducing Cost of Redundancy -- Are n-gram Categories Helpful in Text Classification? -- Calculating Reactive Power Compensation for Large-scale Street Lighting -- Developing a Decision Support App for Computational Agriculture -- Optimal Location of Sensors for Early Detection of Tsunami Waves -- A Novel Formulation for Inverse Distance Weighting from Weighted Linear Regression -- Addressing the Robustness of Resource Allocation in the Presence of Application and System Irregularities via PEPA Based Modeling -- An Adaptive Computational Network Model for Strange Loops in Political Evolution in Society -- Joint Entity Linking for Web Tables with Hybrid Semantic Matching -- A new coefficient of rankings similarity in decision-making problems -- Innovativeness Analysis of Scholarly Publications by Age Prediction using Ordinal Regression -- Advantage of Using Spherical over Cartesian Coordinates in the Chromosome Territories 3D Modeling -- Adaptive and Efficient Transfer for Online Remote Visualization of Critical Weather Applications.

The seven-volume set LNCS 12137, 12138, 12139, 12140, 12141, 12142, and 12143 constitutes the proceedings of the 20th International Conference on Computational Science, ICCS 2020, held in Amsterdam, The Netherlands, in June 2020.* The total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions (230 submissions to the main track and 489 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track Part III: Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Agent-Based Simulations, Adaptive Algorithms and Solvers; Applications of Computational Methods in Artificial Intelligence and Machine Learning; Biomedical and Bioinformatics Challenges for Computer Science Part IV: Classifier Learning from Difficult Data; Complex Social Systems through the Lens of Computational Science; Computational Health; Computational Methods for Emerging Problems in (Dis-)Information Analysis Part V: Computational Optimization, Modelling and Simulation; Computational Science in IoT and Smart Systems; Computer Graphics, Image Processing and Artificial Intelligence Part VI: Data Driven Computational Sciences; Machine Learning and Data Assimilation for Dynamical Systems; Meshfree Methods in Computational Sciences; Multiscale Modelling and Simulation; Quantum Computing Workshop Part VII: Simulations of Flow and Transport: Modeling, Algorithms and Computation; Smart Systems: Bringing Together Computer Vision, Sensor Networks and Machine Learning; Software Engineering for Computational Science; Solving Problems with Uncertainties; Teaching Computational Science; UNcErtainty QUantificatiOn for ComputatiOnAl modeLs *The conference was canceled due to the COVID-19 pandemic.
