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   Soggetti   Computer science
                       Artificial intelligence
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   Note generali   Includes Index.

   Nota di contenuto   ICCS Main Track -- Efficient Computation of Sparse Higher Derivative
                       Tensors -- Rational Approximation of Scientific Data -- Design of a
                       High-Performance Tensor-Vector Multiplication with BLAS -- High
                       Performance Partial Coherent X-ray Ptychography -- Monte Carlo
                       Analysis of Local Cross-Correlation ST-TBD Algorithm -- Optimization

of Demodulation for Air-Gap Data Transmission based on Backlight Modulation of Screen -- Reinsertion algorithm based on destroy and repair operators for dynamic dial a ride problems -- Optimization heuristics for computing the Voronoi skeleton -- Transfer Learning for Leisure Centre Energy Consumption Prediction -- Forecasting Network Throughput of Remote Data Access in Computing Grids -- Accurately Simulating Energy Consumption of I/O-intensive Scientific Workflows -- Exploratory Visual Analysis of Anomalous Runtime Behavior in Streaming High Performance Computing Applications -- Analysis of the construction of similarity matrices on multi-core and many-core platforms using different similarity metrics -- High Performance Algorithms for Counting Collisions and Pairwise Interactions -- Comparing domain-decomposition methods for the parallelization of distributed land surface models -- Analysis and Detection on Abused Wildcard Domain Names Based on DNS Logs -- XScan: An Integrated Tool for Understanding Open Source Community-based Scientific Code -- An On-line Performance Introspection Framework for Task-based Runtime Systems -- Productivity-aware Design and Implementation of Distributed Tree-based Search Algorithms -- Development of Element-by-Element Kernel Algorithms in Unstructured Implicit Low-Order Finite-Element Earthquake Simulation for Many-Core Wide-SIMD CPUs -- A High-productivity Framework for Adaptive Mesh Refinement on Multiple GPUs -- Harmonizing Sequential and Random Access to Datasets in Organizationally Distributed Environments -- Towards Unknown Traffic Identification Using Deep Auto-Encoder and Constrained Clustering -- How to compose product pages to enhance the new users' interest in the item catalog? -- Rumor Detection on Social Media: A Multi-View Model using Self-Attention Mechanism -- EmoMix: Building An Emotion Lexicon for Compound Emotion Analysis -- Long Term Implications of Climate Change on Crop Planning -- Representation Learning of Taxonomies for Taxonomy Matching -- Creating Training Data for Scientific Named Entity Recognition with Minimal Human Effort -- Evaluating the benefits of Key-Value databases for scientific applications -- Scaling the Training of Recurrent Neural Networks on Sunway TaihuLight Supercomputer -- Immersed boundary method halo exchange in a hemodynamics application -- Future ramifications of age-dependent immunity levels for measles: explorations in an individual-based model -- Evolution of Hierarchical Structure & Reuse in iGEM Synthetic DNA Sequences -- Computational design of superhelices by local change of the intrinsic Curvature -- Spatial modeling of influenza outbreaks in Saint Petersburg using synthetic populations -- Six Degrees of Freedom Numerical Simulation of Tilt-Rotor Plane -- A Macroscopic Study on Dedicated Highway Lanes for Autonomous Vehicles -- An Agent-Based Model for Evaluating the Boarding and Alighting Efficiency of Autonomous Public Transport Vehicles -- MLP-IA: Multi-Label User Profile Based on Implicit Association Labels -- Estimating agriculture NIR images from aerial RGB data -- Simulation of Fluid Flow in Induced Fractures in Shale by the Lattice Boltzmann Method -- Incentive Mechanism for Cooperative Intrusion Response: A Dynamic Game Approach -- A k-Cover Model for Reliability-Aware Controller Placement in Software-Dened Networks -- Robust Ensemble-Based Evolutionary Calibration of the Numerical Wind Wave Model -- Approximate Repeated Administration Models for Pharmacometrics -- Evolutionary Optimization of Intruder Interception Plans for Mobile Robot Groups.

| Sommario/riassunto | The five-volume set LNCS 11536, 11537, 11538, 11539, and 11540 constitutes the proceedings of the 19th International Conference on |

Computational Science, ICCS 2019, held in Faro, Portugal, in June 2019. The total of 65 full papers and 168 workshop papers presented in this book set were carefully reviewed and selected from 573 submissions (228 submissions to the main track and 345 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track; Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning; Track of Architecture, Languages, Compilation and Hardware Support for Emerging and Heterogeneous Systems Part III: Track of Biomedical and Bioinformatics Challenges for Computer Science; Track of Classifier Learning from Difficult Data; Track of Computational Finance and Business Intelligence; Track of Computational Optimization, Modelling and Simulation; Track of Computational Science in IoT and Smart Systems Part IV: Track of Data-Driven Computational Sciences; Track of Machine Learning and Data Assimilation for Dynamical Systems; Track of Marine Computing in the Interconnected World for the Benefit of the Society; Track of Multiscale Modelling and Simulation; Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation Part V: Track of Smart Systems: Computer Vision, Sensor Networks and Machine Learning; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Poster Track ICCS 2019 Chapter "Comparing Domain-decomposition Methods for the Parallelization of Distributed Land Surface Models" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.