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Titolo	Computational Science – ICCS 2019 [[electronic resource]] : 19th International Conference, Faro, Portugal, June 12–14, 2019, Proceedings, Part II / / edited by João M. F. Rodrigues, Pedro J. S. Cardoso, Jânio Monteiro, Roberto Lam, Valeria V. Krzhizhanovskaya, Michael H. Lees, Jack J. Dongarra, Peter M.A. Sloot
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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 11537
Disciplina	004
Soggetti	Computer science Artificial intelligence Computer engineering Computer networks Logic design Computer vision Computer science—Mathematics Theory of Computation Artificial Intelligence Computer Engineering and Networks Logic Design Computer Vision Mathematics of Computing
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	ICCS Main Track -- Synthesizing quantum circuits via numerical optimization -- Application of continuous time quantum walks to image segmentation -- Synchronized Detection and Recovery of Steganographic Messages with Adversarial Learning -- Multi-Source Manifold Outlier Detection -- A Fast kNN-based Approach for Time

Sensitive Anomaly Detection over Data Streams -- n-gram Cache Performance in Statistical Extraction of Relevant Terms in Large Corpora -- Lung Nodule Diagnosis via Deep Learning and Swarm Intelligence -- Marrying Graph Kernel with Deep Neural Network: A Case Study for Network Anomaly Detection -- Machine learning for performance enhancement of molecular dynamics Simulations -- 2D-Convolution based Feature Fusion for Cross-Modal Correlation Learning -- DunDi: Improving Robustness of Neural Networks using Distance Metric Learning -- Autism Screening using Deep Embedding Representation -- Function and pattern extrapolation with product-unit networks -- Fast and Scalable Outlier Detection with Metric Access Methods -- Deep Learning Based LSTM and SeqToSeq Models to Detect Monsoon Spells of India -- Data Analysis for Atomic Shapes in Nuclear Science -- A Novel Partition Method for Busy Urban Area Based on Spatial-Temporal Information -- Mention Recommendation with Context-aware Probabilistic Matrix Factorization -- Synchronization under control in complex networks for a panic model -- Personalized Ranking in Dynamic Graphs Using Nonbacktracking Walks -- An Agent-Based Model for Emergent Opponent Behavior -- Fine-Grained Label Learning via Siamese Network for Cross-modal Information Retrieval -- MeshTrust: A CDN-centric Trust Model for Reputation Management on Video Traffic -- Optimizing spatial accessibility of company branches network with Constraints -- Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks -- A Fast 3D Finite-element Solver for Large-scale Seismic Soil Liquefaction Analysis -- Performance Evaluation of Tsunami Inundation Simulation on SX-Aurora TSUBASA -- Parallel Computing for Module-Based Computational Experiment -- Heuristic Optimization with CPU-GPU Heterogeneous Wave Computing for Estimating Three-dimensional Inner Structure -- A Generic Interface for Godunov-type Finite Volume Methods on Adaptive Triangular Meshes -- Track of Agent-Based Simulations, Adaptive Algorithms and Solvers -- Distributed Memory Parallel Implementation of Agent Based Economic Models -- Augmenting Multi-Agent Negotiation in Interconnected Freight Transport Using Complex Networks Analysis -- Security-Aware Distributed Job Scheduling in Cloud Computing Systems: A Game-Theoretic Cellular Automata-based Approach -- Residual minimization for isogeometric analysis in reduced and mixed Forms -- CTCmodeler: an agent-based framework to simulate pathogen transmission along an inter-individual contact network in a hospital -- Socio-cognitive ACO in Multi-criteria Optimization -- Reconfiguration of the multi-channel communication system with hierarchical structure and distributed passive switching -- Multi-agent environment for decision support in production system using machine learning methods -- Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning -- Biclustering via Mixtures of Regression Models -- An Evaluation Metric for Content Providing Models, Recommender Systems and Online Campaigns -- Tolerance Near Sets and tNM Application in City Images -- Meta-Graph based Attention-aware Recommendation over Heterogeneous Information Networks -- Determining Adaptive Loss Functions and Algorithms for Predictive Models -- Adaptive Objective Functions and Distance Metrics for Recommendation Systems -- An Early Warning Method for Agricultural Products Price Spike Based on Artificial Neural Networks Prediction -- Predicting Heart Attack through Explainable Artificial Intelligence -- Track of Architecture, Languages, Compilation and Hardware Support for Emerging and Heterogeneous Systems -- Dynamic and Distributed Security Management for NoC based MPSoCs -- Scalable Fast Multipole Method

for Electromagnetic Simulations.

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.