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	Nota di contenuto	ICCS Main Track -- Optimizing the Efficiency, Vulnerability and Robustness of Road-based Para-transit Networks using Genetic Algorithm -- On the Configuration of Robust Static Parallel Portfolios for Efficient Plan Generation -- SDF-Net: Real-time Rigid Object Tracking Using a Deep Signed Distance Network -- Insider Threat

Detection with Deep Neural Network -- Pheromone Model Based Visualization of Malware Distribution Networks -- Detecting Wildlife in Unmanned Aerial Systems Imagery using Convolutional Neural Networks Trained with an Automated Feedback Loop -- Incentive Mechanism for Cooperative Intrusion Detection: an Evolutionary Game Approach -- Hybrid Genetic Algorithm for an On-Demand First Mile Transit System using Electric Vehicles -- Comprehensive Learning Gene Expression Programming for Automatic Implicit Equation Discovery -- Multi-population Genetic Algorithm for Cardinality Constrained Portfolio Selection Problems -- Recognition and Classification of Rotorcraft by Micro-Doppler Signatures using Deep Learning -- Data Allocation based on Evolutionary Data Popularity Clustering -- Hyper-heuristic Online Learning for Self-assembling Swarm Robots -- An Innovative Heuristic for Planning-based Urban Traffic Control. - Automatic Web News Extraction Based on DS Theory Considering Content Topics -- DomainObserver: A Lightweight Solution for Detecting Malicious Domains Based on Dynamic Time Warping -- You Have More Abbreviations than You Know: A Study of AbbrevSquatting Abuse -- Large Scale Retrieval of Social Network Pages by Interests of Their Followers -- Parallel data-driven modeling of information spread in social networks -- Topology of Thematic Communities in Online Social Networks: A Comparative Study -- Topological street-network characterization through feature-vector and cluster analysis -- A distance-based tool-set to track inconsistent urban structures through complex-networks -- A Conceptual Framework for Social Movements Analytics for National Security -- Retweet Prediction using Social-aware Probabilistic Matrix Factorization -- Cascading Failure Based on Load Redistribution of a Smart Grid with Different Coupling Modes -- Measuring social responsiveness for improved handling of extreme situations -- A Computational Model-Based Framework to Plan Clinical Experiments – an Application to Vascular Adaptation Biology -- Accelerating Data Analysis in Simulation Neuroscience with Big Data Technologies -- Spiral wave drift induced by high-frequency forcing. Parallel simulation in the Luo-Rudy anisotropic model of cardiac tissue -- Understanding Malaria induced red blood cell deformation using data-driven Lattice Boltzmann Simulations -- Towards Model-based Policy Elaboration on City Scale using Game Theory: Application to Ambulance Dispatching -- Elucidation of Mechanism for Reducing Porosity in Electric Arc Spraying through CFD -- nSharma: Numerical Simulation Heterogeneity Aware Runtime Manager for OpenFOAM -- High Performance Computational Hydrodynamic Simulations: UPC Parallel Architecture as a Future Alternative -- Classifying Aircraft Approach Type in the National General Aviation Flight Information Database -- On Parametric Excitation for Exploration of Lava Tubes and Caves -- Global Simulation of Planetary Rings on Sunway TaihuLight -- Parallel Performance Analysis of Bacterial Biofilm Simulation Models -- Parallel Solutions to the k-difference Primer Problem -- RT-DBSCAN: Real-time Parallel Clustering of Spatio-Temporal Data using Spark-Streaming -- GPU-based implementation of Ptycho-ADMM for high performance X-ray imaging -- Elastic CPU Cap Mechanism for Timely Dataflow Applications -- Blockchain-based transaction integrity in distributed big data marketplace -- Workload Characterization and Evolutionary Analyses of Tianhe-1A Supercomputer -- The Design of Fast and Energy-Efficient Linear Solvers: On The potential Of Half Precision Arithmetic And Iterative Refinement Techniques -- Design of Parallel BEM Analyses Framework for SIMD Processors -- An experimental assessment of three point-insertion sequences for 3-D incremental Delaunay tessellations -- Learning Knowledge Graph

Embeddings via Generalized Hyperplanes -- Fast Higher-Order Functions for Tensor Calculus with Tensors and Subtensors -- The t-modified self-shrinking generator -- Simulating Negotiation-based Cloud Markets -- Structural Learning of Probabilistic Graphical Models of Cumulative Phenomena -- Sparse Surface Speed Evaluation on a Dynamic Three-Dimensional Surface Using an Iterative Partitioning Scheme -- Accurate, Automatic and Compressed Visualization of Radiated Helmholtz Fields from Boundary Element Solutions.

Sommario/riassunto

The three-volume set LNCS 10860, 10861 + 10862 constitutes the proceedings of the 18th International Conference on Computational Science, ICCS 2018, held in Wuxi, China, in June 2018. The total of 155 full and 66 short papers presented in this book set was carefully reviewed and selected from 404 submissions. The papers were organized in topical sections named: Part I: ICCS Main Track Part II: 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 ManYcore Systems; Track of Biomedical and Bioinformatics Challenges for Computer Science; Track of Computational Finance and Business Intelligence; Track of Computational Optimization, Modelling and Simulation; Track of Data, Modeling, and Computation in IoT and Smart Systems; Track of Data-Driven Computational Sciences; Track of Mathematical-Methods-and-Algorithms for Extreme Scale; Track of Multiscale Modelling and Simulation Part III: Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Poster Papers.