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Titolo	Remarkeable passages: first, a prayer for the Parliament [[electronic resource]] : As also the Arch-bishop of Canterburies letter to the Arch-bishop of Yorke, and the Lord keeper, to put in practice the Kings desires. With a petition to His Majestie, by divers noblemen and gentlemen estated in Ireland, and now residing in London. Also a new declaration from both Houses of Parliament. Ordered by the Lords and Commons in Parliament, that this be forthwith printed. Hen. Elsyng. Cler. Par. D. Com
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Nota di contenuto	Intro -- Preface -- Organization -- Contents - Part V -- Computational Optimization, Modelling and Simulation -- Cost-Efficient Multi-Objective Design of Miniaturized Microwave Circuits Using Machine Learning and Artificial Neural Networks -- 1 Introduction -- 2 Multi-Objective Optimization Methodology -- 2.1 MO Microwave Design Optimization -- 2.2 Multi-Resolution EM Models -- 2.3 Sampling Procedure and ANN-Based Surrogate Modeling -- 2.4 Multi-Objective Evolutionary Algorithm (MOEA) -- 2.5 Infill Point Allocation -- 2.6 Management Scheme of Multi-Fidelity Models. Dataset Updating -- 2.7 Algorithm Termination -- 2.8 Algorithm Operation -- 3 Verification

Case Studies -- 4 Conclusion -- References -- Expedited Machine-Learning-Based Global Design Optimization of Antenna Systems Using Response Features and Multi-fidelity EM Analysis -- 1 Introduction -- 2 Global Optimization Using Response Features and Multi-fidelity EM Analysis -- 2.1 Antenna Design Task: Formulation -- 2.2 Concept of Response Features -- 2.3 Multi-resolution EM Simulations -- 2.4 Kriging and Co-kriging Metamodels -- 2.5 Pre-screening of Design Space. Primary Surrogate Construction -- 2.6 PSO-Based Infill Points Generation. Co-Kriging Model -- 2.7 Complete Optimization Procedure -- 3 Verification Case Studies -- 3.1 Test Cases and Experimental Setup -- 3.2 Results and Discussion -- 4 Conclusion -- References -- Exploring Apple Silicon's Potential from Simulation and Optimization Perspective -- 1 Introduction -- 2 Apple Silicon Overview -- 3 Methodology -- 4 Experimental Results -- 5 Discussion -- 6 Conclusion -- References -- Deep Neural Network for Constraint Acquisition Through Tailored Loss Function -- 1 Introduction -- 2 Related Works -- 3 Methodology -- 3.1 Symbolic Regression -- 3.2 Loss Function Definition for Constraint Acquisition -- 3.3 EQL and Loss Function Integration.
3.4 Experiments Definition and Setup -- 4 Results and Discussion -- 5 Conclusions -- References -- Efficient Search Algorithms for the Restricted Longest Common Subsequence Problem -- 1 Introduction -- 1.1 Preliminaries -- 2 The DP Approach for the RLCS Problem -- 3 Greedy Algorithm -- 4 The Proposed Efficient Search Methods -- 4.1 The General Search Framework -- 4.2 A* Search Algorithm -- 4.3 Beam Search Algorithm -- 5 Experimental Evaluation -- 5.1 Statistical Analysis -- 6 Conclusions and Future Work -- References -- Adaptive Hyperparameter Tuning Within Neural Network-Based Efficient Global Optimization -- 1 Introduction -- 2 Methods -- 2.1 Surrogate-Based Optimization -- 2.2 Efficient Global Optimization -- 2.3 EGO Using Neural Networks -- 2.4 Hyperparameter Optimization -- 3 Numerical Experiments -- 3.1 Problem Formulation of the Hartmann Function -- 3.2 Strategies and Algorithm Setup -- 3.3 Optimizing the Full Set of HPs -- 3.4 Optimizing a Subset of the HPs -- 4 Conclusion -- References -- Hypergraph Clustering with Path-Length Awareness -- 1 Introduction -- 2 Preliminaries -- 2.1 Notations and Definitions -- 2.2 Related Works -- 3 Model and Weighting Schemes -- 4 A Parameterized M-Approximation Algorithm for Red-Black Hypergraph Clustering -- 4.1 Binary Search Clustering (BSC) -- 4.2 Heavy-Edge Matching -- 5 Experimental Results -- 6 Conclusion -- References -- Adaptive Sampling for Non-intrusive Reduced Order Models Using Multi-task Variance -- 1 Introduction -- 2 Field-Based Adaptive Sampling -- 2.1 Proposed Adaptive Sampling Algorithm -- 2.2 Dimensionality Reduction -- 2.3 Multi-task Gaussian Process Models -- 2.4 Uncertainty Propagation -- 2.5 Scalarized Sampling Objective -- 3 Numerical Experiments -- 3.1 2D Environment Model Function -- 3.2 Comparison Methods and Metric -- 3.3 Setup of the Sampling Algorithm -- 3.4 Results.
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Sommario/riassunto

The 7-volume set LNCS 14832 – 14838 constitutes the proceedings of the 24th International Conference on Computational Science, ICCS 2024, which took place in Malaga, Spain, during July 2–4, 2024. The 155 full papers and 70 short papers included in these proceedings were carefully reviewed and selected from 430 submissions. They were organized in topical sections as follows: Part I: ICCS 2024 Main Track Full Papers; Part II: ICCS 2024 Main Track Full Papers; Part III: ICCS 2024 Main Track Short Papers; Advances in High-Performance Computational Earth Sciences: Numerical Methods, Frameworks and Applications; Artificial Intelligence and High-Performance Computing for Advanced Simulations; Part IV: Biomedical and Bioinformatics Challenges for Computer Science; Computational Health; Part V: Computational Optimization, Modelling, and Simulation; Generative AI and Large Language Models (LLMs) in Advancing Computational Medicine; Machine Learning and Data Assimilation for Dynamical Systems; Multiscale Modelling and Simulation; Part VI: Network Models and Analysis: From Foundations to Artificial Intelligence; Numerical Algorithms and Computer Arithmetic for Computational Science; Quantum Computing; Part VII: Simulations of Flow and Transport: Modeling, Algorithms and Computation; Smart Systems: Bringing Together Computer Vision, Sensor Networks, and Artificial Intelligence; Solving Problems with Uncertainties; Teaching Computational Science .