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Community Structure in Complex Networks: A MaxSAT Approach -- WebAA: Website Association Analysis via Multi-Resource Similarity Computation -- Exploring the Effect of Spatial Scales in Studying Urban Mobility Pattern -- NotiCorr: Exposing Social Relationships via Notification Traffic of Instant Messaging Applications -- PAWUK: Extensive Annotated Web Corpus of Ukrainian -- Assessing Physics Parameterizations using Evolutionary Computation -- Domain solutions obtained by the FPIES for potential 2D BVPs -- Detecting and Understanding Hateful Contents in Memes Through Captioning and Visual Question-Answering -- A GPU-Accelerated Interior Point Method with Applications in Radiation Therapy Optimization -- An Empirical Assessment of LLM-Based Approaches to Malicious Webpage Detection -- Physics Informed Neural Network Code for 2D Transient Problems (PINN-2DT) Compatible with Google Colab -- Dynamic Neural Network with Matrix-extended Residual Connections -- Proof of Training: Obtaining Verifiable ML Models by Delegating Training to a Blockchain Network -- Multiple-Meta-Instance Selection. Combining the Properties of Many Instance-Selection Methods -- Using B-spline Function Properties in the PIES Method to Handle Singularities in Boundary Value Problems -- cuTeBool: Fast and Scalable Boolean matrix factorization on GPUs using Tensor Cores -- Encrypted Malicious Traffic Detection Using Multi-Instance Learning -- Dimensionality Reduction in Product of Metric Spaces -- To Select or Not to Select? The Role of Meta-features Selection in Meta-learning Tasks with Tabular Data -- Simple Error Estimation for PIES in 2D Elasticity Problems.

Sommario/riassunto

The 4-volume set LNCS constitutes the main proceedings of the 25th International Conference on Computational Science, ICCS 2025, which took place in Singapore, Singapore, during July 7–9, 2025. The 64 full papers and 52 short papers presented in these proceedings were carefully reviewed and selected from 162 submissions. The ICCS 2025 main track full papers are organized in volumes 15903–15905 (Parts I to III) and the ICCS 2025 main track short papers are included in volume 15906 (Part IV).