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Autore	Paszynski Maciej
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Nota di contenuto	<p>Machine Learning and Data Assimilation for Dynamical Systems -- Cluster-based Reduced-order Modelling and Control for Chaotic Systems with Extreme Events -- First Experiences on Exploiting Physics-Informed Neural Networks for Approximating Solutions of a Biological Model -- A Machine Learning System for Energy Forecasting with Feature Importance Analysis -- Latent Three-dimensional Variational Data Assimilation with Convolutional Autoencoder and LSTM for Flood Forecasting -- Online Model Learning with Data-assimilated Reservoir Computers -- Data-Assimilated Model-Based Reinforcement Learning for Partially Observed Chaotic Flows -- SHAP-prioritised Machine Learning for Diagnostic Grade Prediction of Lung Function -- Turn Detection in Alpine Skiing Using Smartphone Sensors -- Assimilation of Data for Dynamic Digital Twins by Learning Covariance Information -- Multi-Criteria Decision-Making: Methods, Applications, and Innovations -- Issues Importance Analysis for Reaching High-Quality Consensus in Preference-Based Conflict Scenarios -- Integrating Conflict Analysis and Rule-Based Systems for Dispersed Data Classification -- Multicriteria Framework for Digital Content Design and Evaluation in Cross-Generational Targeting -- Integrating Habituation Effects with UCB and Softmax Multi-Armed Bandit Algorithms for Optimized Digital Content Delivery -- Computational Risk Assessment in Water Distribution Network -- Preserving Informative Content of Condition Attributes in Data Transformations for CRSA -- Using SSP-VIKOR in Sustainable Share of Renewable Energy Sources Assessment -- Decision-Making of Homogeneous Multiple Classifiers Based on Attribute Characterisation by Discretisation -- New Multi-Criteria Approach to Sustainable Development Assessment -- Compromise Fuzzy Ranking: A Novel Method for Reaching Consensus in Complex Multi-criteria Decision Problems -- A New Approach to Large-scale Multi-criteria Group Decision-making Based on the RANCOM Method -- Towards Sustainable Decision Making: New Reference Point-Based MCDA Method -- An Adaptive RANCOM-ST Method for Bias Reduction using Statistical Thresholds -- Strong Sustainability Paradigm in TOPSIS Method: New Approach to Wind Farm Selection Problem -- Aspects of Implementing RPA in an IT Company -- Evaluating Sufficiency Practices for Sustainable Competitiveness using AHP-grey Analysis -- Actionable Fire Modeling in Firemap for Extended Attack Decision Support -- The Role of Preference Reidentification in MCDA: Comparing Weight-Based, Normalization, and Reference-Object Approaches -- Subjective Equal Criteria Influence Approach (SECIA): A Novel Extended Approach to Weights Determination -- Local Markovian Consensus for Ranking Aggregation: A Novel Approach to Consensus Ranking with Weak Ordinal Dominance.</p>
Sommario/riassunto	<p>The 6-volume set constitutes the workshop proceedings of the 25th International Conference on Computational Science, ICCS 2025, which took place in Singapore, Singapore, during July 7–9, 2025. The 137 full</p>

papers and 32 short papers presented in these proceedings were carefully reviewed and selected from 322 submissions. The papers are organized in the following topical sections: Volume I: Advances in high-performance computational earth sciences: numerical methods, frameworks & applications; artificial intelligence approaches for network analysis; artificial intelligence and high-performance computing for advanced simulations; and biomedical and bioinformatics challenges for computer science. Volume II: Computational health; computational modeling and artificial intelligence for social systems; and computational optimization, modelling and simulation. Volume III: Computational science and AI for addressing complex and dynamic societal challenges equitably; computer graphics, image processing and artificial intelligence; computing and data science for materials discovery and design; and large language models and intelligent decision-making within the digital economy. Volume IV: Machine learning and data assimilation for dynamical systems; and multi-criteria decision-making: methods, applications, and innovations. Volume V: (Credible) Multiscale modelling and simulation; numerical algorithms and computer arithmetic for computational science; quantum computing; retrieval-augmented generation; and simulations of flow and transport: modeling, algorithms and computation. Volume VI: Smart systems: bringing together computer vision, sensor networks and artificial intelligence; solving problems with uncertainty; and teaching computational science.
