

1. Record Nr.	UNISA996668470703316
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Titolo	Computational Science and Its Applications – ICCSA 2025 Workshops : Istanbul, Turkey, June 30 – July 3, 2025, Proceedings, Part II // edited by Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, Yeliz Karaca, Maria Noelia Faginas Lago, Francesco Scorza, Ana Cristina Braga
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-031-97589-8
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (692 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15887
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Disciplina	004.6
Soggetti	Computer networks Computer engineering Computer systems Artificial intelligence Computer Communication Networks Computer Engineering and Networks Computer System Implementation Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Unveiling the synergies between Air Quality and Climate Planning (AQCliPA 2025). -- Indoor and Outdoor Air Pollution and Its Health Impact in Chile. -- "Sherry Triangle", investigating tourism ecosystem in Andalusia (ES). -- Performance Analysis and Science Mapping on High Performance Computing in the era of Artificial Intelligence. -- A dismissed train line as a new pillar for sustainable tourism development in Corsica: "The Maquis Way" strategy. -- Advancements in Spatial assessment of Socio-Ecological Systems (AS SESS 2025). -- Planning

for Environmental Justice. A Multi-methodological Approach. -- Spatial analysis in multi-value assessment for rural landscapes: A comparative study of ES, LS, and LCA frameworks. -- High-Resolution Coastal Vulnerability Assessment: Integrating Ecosystem Services Mapping for Sustainable Urban Management in the Naples Costaline. -- Blockchain and Distributed Ledgers: Technologies and Applications (BDLTA 2025). -- Efficient Application of Multi-Layer Data Processing with PBFT and RAFT for Transaction Forecasting Using LSTM. -- Towards Secure Cross-Organizational Data Transfer: A Blockchain-Enabled Message Broker Approach. -- Unveiling the synergies between Air Quality and Climate Planning (AQCliPA 2025). -- Indoor and Outdoor Air Pollution and Its Health Impact in Chile. -- "Sherry Triangle", investigating tourism ecosystem in Andalusia (ES). -- Performance Analysis and Science Mapping on High Performance Computing in the era of Artificial Intelligence. -- A dismissed train line as a new pillar for sustainable tourism development in Corsica: "The Maquis Way" strategy. -- Advancements in Spatial assessment of Socio-Ecological Systems (ASSESS 2025). -- Planning for Environmental Justice. A Multi-methodological Approach. -- Spatial analysis in multi-value assessment for rural landscapes: A comparative study of ES, LS, and LCA frameworks. -- High-Resolution Coastal Vulnerability Assessment: Integrating Ecosystem Services Mapping for Sustainable Urban Management in the Naples Costaline. -- Blockchain and Distributed Ledgers: Technologies and Applications (BDLTA 2025). -- Efficient Application of Multi-Layer Data Processing with PBFT and RAFT for Transaction Forecasting Using LSTM. -- Towards Secure Cross-Organizational Data Transfer: A Blockchain-Enabled Message Broker Approach. -- Computational and Applied Mathematics (CAM 2025). -- Two families of W-methods: analysis and application on battery models. -- The Mandelbrot set for a family of coquaternionic quadratics. -- Mixed Integer Linear Formulation for the Multiple Trip Aircraft Refueling Problem of a Brazilian Company. -- Symbolic and Numerical Computation of Coquaternionic Functions in Mathematica. -- Pascal Trapezoids as Wigner Numbers and some Combinatorial Properties. -- Predicting information diffusion on social media using an epidemiological approach. -- Discrete gradient -methods for port-Hamiltonian systems. -- Mean-Square Monotonicity Analysis of -Maruyama Methods. -- Solution of quaternion equations with imprecisely defined coefficients. -- Computational and Applied Statistics (CAS 2025). -- Predicting Obstetric Outcome through a Web Application Using a Multinomial Logistic Regression Model. -- The mediating role of occupational self-efficacy in the relationship between employees' perceived trust and work engagement. -- RidGME Estimation and Inference in Ill-Conditioned Models. -- Development of Reference Percentile Growth Curves for Placental Parameters Using Advanced Statistical Models. -- Comparison of Different Estimators for the Rayleigh Gamma Gompertz's Parameters and Reliability Function. -- Pricing Models in Individual Health Insurance. -- Revisiting the Fail-Safe Number in Meta-Analysis: Insights from a Simulation Study. -- Investigating Student Retention in an Economics Degree Programme. -- Time-dependent and Non-linear Predictor Effects in Survival Analyses: A Case Study Comparing Alternative Models for Cancer Mortality. -- Factors influencing trust in human-robot interaction: a case study. -- Two families of W-methods: analysis and application on battery models. -- The Mandelbrot set for a family of coquaternionic quadratics. -- Mixed Integer Linear Formulation for the Multiple Trip Aircraft Refueling Problem of a Brazilian Company. -- Symbolic and Numerical Computation of Coquaternionic Functions in Mathematica.

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Sommario/riassunto

The fourteen-volume set LNCS 15886-15899 constitutes the papers of several workshops which were held in conjunction with the 25th International Conference on Computational Science and Its Applications, ICCSA 2025, held in Istanbul, Turkey, during June 30–July 3, 2025.. The 362 full papers, 37 short papers and 2 PHD showcase included in this book were carefully reviewed and selected from 1043 submissions. In addition, the conference consisted of 58 workshops, focusing on very topical issues of importance to science, technology and society: from new mathematical approaches for solving complex computational systems, to information and knowledge in the Internet of Things, new statistical and optimization methods, several Artificial Intelligence approaches, sustainability issues, smart cities and related technologies.
