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Nota di contenuto	Intro -- Preface -- Welcome Message from Organizers -- Organization -- Plenary Lectures -- Harnessing Artificial Intelligence for Enhanced Spatial Analysis of Natural Hazard Assessments -- Software Engineering Research in a New Situation -- Interpretability and Privacy Preservation in Large Language Models (LLMs) -- Contents - Part IV -- Workshop on Computational Science and HPC (CSHPC 2024) --

Performance Evaluation of Accelerated Complex Multiple-Precision LU Decomposition -- 1 Introduction -- 2 Acceleration of Complex Basic Linear Computation -- 2.1 3M Method for Complex Linear Computation -- 2.2 Acceleration Using AVX2 SIMDization -- 2.3 Parallelization with OpenMP -- 2.4 Benchmark Test for Complex Matrix Multiplication -- 3 Acceleration of Multiple-Precision Complex LU Decomposition -- 4 Benchmark Test of Complex LU Decomposition -- 4.1 DD-Precision Computation -- 4.2 QD-Precision Computing -- 4.3 TD-Precision Computing -- 4.4 Summary of High-Performance Complex LU Decomposition -- 5 Conclusion and Future Works -- References

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Data Analysis of Molecular Dications Fragmentation Processes by Double Photoionization with Synchrotron Radiation -- 1 Introduction -- 1.1 Double Photoionization Studies -- 1.2 Electron-Ion-Ion Coincidence Measurements -- 2 Experimental Setup -- 2.1 The Allene Sample -- 2.2 ARPES 3D Ion Imaging End Station -- 3 Data Analysis -- 3.1 Ionization Thresholds -- 3.2 Kinetic Energy Releases -- 3.3 Metastable Lifetime -- 4 Conclusions -- References

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Econometric and Multidimensional Evaluation in Urban Environment (EMEUE 2024) -- SDGs Localization: A New Tool for a Comprehensive Assessment of Neighbourhood Sustainability -- 1 Introduction -- 2 The SDGs Assessment Tool: Methodology -- 2.1 Strategy and Policy: Build a Common Vision -- 2.2 Selection of Representative Indicators -- 2.3 Identification of SDGs "Urban Targets" -- 2.4 Definition of Local Indicators -- 3 Conclusions -- References

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Emission Driver -- 4.1 Etiological Analysis -- 5 Conclusions and Future Insights -- References -- Applications and Economic Profiles of the Turnkey Contract Business Model -- 1 Introduction -- 2 Literature Review -- 3 Method -- 3.1 Multiple Correspondence Analysis (MCA) -- 3.2 Cluster Analysis: K-modes Algorithm -- 4 Data -- 5 Results and Discussion -- 5.1 Multiple Correspondence Analysis (MCA) -- 5.2 Cluster Analysis: K-modes Algorithm -- 5.3 Discussion -- 6 Conclusions -- References -- Comparative Analysis of Economic Evaluation Techniques for Healthcare Initiatives -- 1 Introduction -- 2 Aim -- 3 European Financial Framework in Healthcare -- 3.1 European Union Strategies -- 3.2 NRRP in Italy, a Focus on Mission 6: Health -- 4 Economic Appraisal in Healthcare -- 4.1 Comparative Analysis of the Main Used Health Economic Evaluation Techniques -- 4.2 Common Pitfalls of Health Economic Appraisal -- 5 Conclusion and Future Insights -- References -- Healthcare Investments Valuation. A Case Study of a Property in Disuse to Be Enhanced in a Nursing Home -- 1 Introduction -- 2 Aim -- 3 Framework -- 3.1 Statistics -- 3.2 Tariffs -- 3.3 Market -- 4 Case Study -- 4.1 Market Analysis -- 4.2 Design -- 4.3 Valuation -- 5 Conclusions -- References -- Port Cities and Evaluation: A Literature Review to Explore Their Interplay in Planning. 1 Introduction -- 2 Material and Methods -- 3 Results -- 4 Discussion and Conclusions -- References -- Environmental, Social, Governance of Energy Planning (ESGEP 2024) -- Assessing the Optimal Scenario of Collective Self-Consumption Groups in Net Zero Condominiums -- 1 Introduction -- 2 Methodology -- 3 Case Study -- 4 Results and Conclusions -- References -- Urban Energy Redevelopment Projects: A Protocol for Economic and Financial Risk Assessment Under Public Incentive Policies -- 1 Introduction -- 2 Literature Review and Regulatory Framework -- 2.1 Recent Research on Energy Efficiency in Urban Areas -- 2.2 International Energy Policies Based on Public Incentives and Tax Deductions -- 2.3 Italian Energy Policies Based on Public Incentives and Tax Deductions -- 2.4 The ALARP Principle -- 3 The Protocol -- 4 Discussion and Conclusions -- References -- A Conceptual Framework to Address Collective Energy Initiatives' Spatial Impacts at the City Level: An Ongoing Attempt -- 1 Introduction -- 2 Methodology -- 3 The Literature Review -- 4 Conclusions -- References -- Planning Renewable Energy Communities in Intermediate Areas. A Case of Study -- 1 Introduction -- 2 Methodological Path and Aim of the Work -- 3 A Case of Study -- 3.1 Input Data and Processing -- 4 Results and Discussion -- 4.1 Energy Poverty Map -- 4.2 Constraints Map -- 4.3 Priority Areas Map -- 5 Conclusion -- References -- Ecosystem Services in Spatial Planning for Climate Neutral Urban and Rural Areas (ESSP 2024) -- Strategic Environmental Assessment as a Tool to Embed Climate Change Adaptation in Urban Planning. The Case of Four Italian Cities -- 1 Introduction -- 2 Methods and Materials -- 3 Results -- 3.1 Hydrogeological Instability -- 3.2 Urban Settlements -- 3.3 Transportation Network -- 4 Policy Implications -- 5 Conclusions -- References. From Global to Local Scenarios of Climate Change Impact on Natural Resources. The Role of Regional Planning in an Inner Area of South of Italy -- 1 Introduction and Structure of the Paper -- 2 IPCC Scenarios -- 2.1 Actual State -- 2.2 Long-Term Scenario -- 2.3 Short-Term Responses -- 2.4 Scenarios for Mediterranean Region -- 3 Case Study. Natural Resources in the Province of Avellino -- 3.1 Soil, Agriculture, Food -- 3.2 Water -- 3.3 Energy -- 4 Local Scenario -- 4.1 Elements Influencing the Scenario -- 4.2 The Scenario -- 5 Recommendation for the Future Regional Planning -- 6 Conclusions -- References --

Exploring Urban Metabolism Through Ecosystem Services Mapping: The Case Study of Turin (Italy) -- 1 Introduction -- 2 Methodology -- 2.1 Study Area -- 2.2 Ecosystem Services Mapping -- 2.3 Air Purification Assessment -- 3 Results -- 3.1 The Distribution of Ecosystem Services -- 3.2 The Assessment of Air Purification -- 4 Discussion -- 4.1 Urban Metabolism and Ecosystem Services Relationships -- 4.2 Urban Planning Towards Climate Neutrality -- 4.3 Shortcomings and Further Research -- 5 Conclusions -- References -- Methodology to Planning Green Infrastructure to Mitigate Landslide Risk -- 1 Introduction -- 2 Objective -- 3 Materials and Methods -- 3.1 Methodology -- 3.2 Techniques and Instruments -- 4 Case Study -- 4.1 Hydrogeological Risk in the Campania Region -- 5 Application -- 6 Discussion and Perspectives -- References -- Regulating Urban Ecosystem Services Unveiled: Empirical Insights on Driving Factors in Cagliari, Italy -- 1 Introduction -- 2 Materials and Methods -- 2.1 Study Area -- 2.2 Spatial Data -- 2.3 Methods -- 3 Results -- 3.1 Spearman's Rank Correlation Coefficients -- 3.2 Regressions -- 4 Discussion -- 5 Conclusions -- References -- Urban Heat Island Phenomenon and Ecosystem Services. A Systematic Review -- 1 Introduction. 2 Materials and Methods.

Sommario/riassunto

This eleven-volume set LNCS 14815 – 14825 constitutes the refereed workshop proceedings of the 24th International Conference on Computational Science and Its Applications, ICCSA 2024, held at Hanoi, Vietnam, during July 1–4, 2024. The 281 full papers, 17 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 450 submissions. In addition, the conference consisted of 55 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.
