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Nota di contenuto	General Track 3: Geometric Modeling, Graphics and Visualization -- Automatic User Testing and Emotion Detection in Interactive Urban Devices -- Robust Seeded Image Segmentation using Adaptive Label Propagation and Deep Learning-Based Contour Orientation -- Siamese Network with Gabor Filter for Recognizing Handwritten Digits -- Semi-Supervised Time Series Classification through Image Representations -- Construction of Torus of Revolution generated from Epicycloids -- General Track 4: Advanced and Emerging Applications -- AutoML Framework for labor potential modeling -- Seismic inversion for fracture model reconstruction: from 1D inversion to machine learning -- "Fat" rays in three dimensional media to approximate a broadband signal propagation -- Visualization, Analysis and Collaborative

Discussion of Severe Weather Events -- General Track 6: Urban and Regional Planning -- Investigating alternative clustering algorithms for a cluster-first, route-second truck and drone scheduling algorithm -- Strategic Directions of Ensuring the Financial Stability of the Transport Enterprise -- New Geographies of Fuel Purchase during the Covid-19 Pandemic: Evidence from the Italian Northeastern Border Zone -- Local budget revenue formation reality, obstacles and prospects in Georgia: an empirical examination and creative approach -- Design principles for platform-based innovation in smart cities -- Analysis of an Enterprise's Compliance with the Authorized Economic Operator Status in the Context of the Customs Policy of Ukraine -- A Usage and Analysis measured CO2 Levels in Japanese Community Buses with IoT Sensors -- Assessment of spatial inequality in agglomeration planning -- Assessment of spatial inequality through the accessibility of urban services -- PHD Showcase Papers: -- Topic Modelling for Characterizing COVID-19 Misinformation on Twitter: A South African Case Study -- Investigating the Use of Topic Modeling for Social Media Market Research: a South African Case Study -- Mitigating Traffic Congestion in Smart and Sustainable Cities Using Machine Learning: A Review -- Urban Resilience Key Metrics Thinking and Computing Using 3D Spatio-Temporal Forecasting Algorithms -- A framework for the analysis of metaheuristics for the travelling salesman problem with drone with interceptions -- Value-oriented management of city development programs based on data from social networks -- Short Papers: -- OdeShell: an interactive tool and a specific domain language to develop models based on Ordinary Differential Equations -- Multiple Integer Divisions with an Invariant Dividend and Monotonically Increasing or Decreasing Divisors -- Large Scale Study of Binary Galaxy Image Classification and the Impact of Image Augmentation Techniques -- A Prediction Model of Pixel Shrinkage Failure using Multi-Physics in OLED Manufacturing Process -- Wavelength computation from RGB -- A Close-up on the AI Radiologist Software -- Thematic modeling of professional communication practices of helping specialists -- Mobility networks as a predictor of socioeconomic status in urban systems -- Forecasting in shipments: comparison of Machine Learning Regression algorithms on industrial applications for supply chain -- An Unseen Features-Enriched Lifelong Machine Learning Framework -- Urban zoning using intraday mobile phone-based commuter patterns in the city of Brno -- Management qualification and responsible management in local government -- The issue of small municipalities - the possibility of applying the principles of socially responsible management.

Sommario/riassunto

The two-volume set LNCS 13956 and 13957 constitutes the refereed proceedings of the 23rd International Conference on Computational Science and Its Applications, ICCSA 2023, held at Lesvos Island, Greece, during July 3–6, 2023. The 67 full papers and 13 short papers and 6 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 283 submissions. The contributions are grouped in topics which deal with General Track 1: Computational Methods, Algorithms and Scientific Applications; General Track 2: High Performance Computing and Networks; General Track 3: Geometric Modeling, Graphics and Visualization; General Track 4: Advanced and Emerging Applications; General Track 5: Information Systems and Technologies; General Track 6: Urban and Regional Planning; and PHD Showcase Papers.
