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Architecture and Infrastructure of an IOT System for Beehive Monitoring and an Interactive Journaling Wearable Device for Beekeepers -- Emerging Data Driven smart city and its solutions for sustainability: the case of Cuenca-Ecuador -- Adoption of the rules of the General Data Protection Regulation on the Websites of Municipalities -- International Workshop on Collective, Massive and Evolutionary Systems (IWCES 2023) -- Preliminary Results of Group Detection Technique based on User to Vector Encoding -- Sentiment Processing of Socio-Political Discourse and Public Speeches -- Multidimensional evolutionary evaluations for transformative approaches (MEETA 2023) -- Community archive: a place-based census technique for urban regeneration -- Culture & The City: Towards a context-aware assessment framework -- Smart Circular Cities and Stakeholders Engagement: A Literature Review to Explore the Role of Artificial Intelligence -- Evaluating energy communities: new social and economic model to implement the ecological transition -- Participatory art and Co-creation methodology in the "Viale delle Metamorfosi" project -- Tailored regeneration process for urban brownfield: an evaluative approach for the Castellammare di Stabia, Italy -- Exploring transformative potentials of urban cemeteries through an Evolutionary Evaluation approach: the case study of "Poggioreale" in Naples (Italy) -- Landscape-based Fire Resilience: Identifying Interaction between Landscape Dynamics and Fire Regimes in the Mediterranean Region -- GIS based hierarchical fuzzy MCDA framework for detecting critical urban areas in climate scenarios -- Urban regeneration strategies for implementing the circular city model: the key role of the community engage-ment -- Building multi-dimensional models for assessing complex environmental systems (MES 2023) -- Civic uses as complex socio-ecological system: a proposal for an analytical framework -- Evaluation of NBS solutions for climate resilience and adaptation in the Sub-Saharan Africa: the case of Ghana's Ashanti region -- Supporting the resources allocation for inner areas by the use of the FITradeoff method -- Renewable energy sources and ecosystem services: Measuring the impacts of ground-mounted photovoltaic panels -- NBS design and implementation in urban systems: dimensions, challenges and issues to construct a comprehensive evaluation framework -- How to address marginalization in small towns: a MCDA approach to comparing different strategies in Campania Region -- Learning urban sustainability by playing -- The Canvas model to support the circular urban regeneration projects -- Supporting the management plan of a World Heritage Site nomination through a multi-step evaluation approach -- Evaluating Nature-Based Solutions impacts: a preliminary framing of assessment methods -- An evaluation model to support strategic urban planning in Italy: the application of Community Impact Evaluation -- Mathematical Methods for Image Processing and Understanding (MMIPU 2023) -- Mathematical models and neural networks for the description and the correction of typical distortions of historical manuscripts -- A mathematical model for the analysis of eye fundus images in healthy and diabetic patients -- Mapped Variably Scaled Kernels: Applications to Solar Imaging -- Fruit fly detection and classification in IoT setup -- A Finite differences-based metric for Magnetic Resonance Image inpainting -- Improving color image binary segmentation using Nonnegative Matrix Factorization -- Truncated minimal-norm Gauss-Newton method applied to the inversion of FDEM data -- Blind source separation of color noisy blurred images -- Quadratically transformed luminance chrominance spaces.

Sommario/riassunto

This nine-volume set LNCS 14104 – 14112 constitutes the refereed workshop proceedings of the 23rd International Conference on

Computational Science and Its Applications, ICCSA 2023, held at Athens, Greece, during July 3–6, 2023. The 350 full papers and 29 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 876 submissions. These nine-volumes includes the proceedings of the following workshops: Advances in Artificial Intelligence Learning Technologies: Blended Learning, STEM, Computational Thinking and Coding (AAILT 2023); Advanced Processes of Mathematics and Computing Models in Complex Computational Systems (ACMC 2023); Artificial Intelligence supported Medical data examination (AIM 2023); Advanced and Innovative web Apps (AIWA 2023); Assessing Urban Sustainability (ASUS 2023); Advanced Data Science Techniques with applications in Industry and Environmental Sustainability (ATELIERS 2023); Advances in Web Based Learning (AWBL 2023); Blockchain and Distributed Ledgers: Technologies and Applications (BDLTA 2023); Bio and Neuro inspired Computing and Applications (BIONCA 2023); Choices and Actions for Human Scale Cities: Decision Support Systems (CAHSC-DSS 2023); and Computational and Applied Mathematics (CAM 2023).