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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 engagement -- 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.

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).
