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Nota di contenuto	Application of Newton-SOR iteration with linear weighted Lagrange approach for solving multi-objective constrained optimization problems -- Game Programming Meets Parallel Computing: Teaching Parallel Computing Concepts to Game Programmers -- Sensitivity Analysis on Absorber Column as Hydrogen Gas Purification Unit Using Aspen Plus -- Use that Pinky on the 'A' Key: A Finger-Key Identification Module for a Touch-Typing Trainer -- Accelerating Density-Based Spatial Clustering of Applications with Noise (DBSCAN) Using Vincenty's Inverse Method on CUDA -- Procedural Modeling for Sustainable Urban Development and Planning: A Blender Plugin for 3D Modeling of Philippine Cities -- Estimating Orangutans Population Size in Sabah

Rainforest in Malaysia using Spatial Modelling -- Multilayer Gaussian Feature Extraction Algorithm for Sky Image Classification -- Face Expression Recognition: A Survey on Hyperparameter Optimization -- Enhancing Low Light Image Classification using MADPIP Approach -- A Robust Multiple Adaptive Derivative Face Recognition System on Pose and Illumination .

Sommario/riassunto

This book is the proceedings of the 4th International Conference on Advances in Computational Science and Engineering (ICACSE 2023, December 16–17, 2023, Manila, Philippines) and contains the selected peer-reviewed papers which reflect recent achievements in the field of application of the computational methods and algorithms in scientific research and engineering design. The papers presented covered topics such as advances in system integration, high-performance computing, modeling, and simulation, big data analytics, big data visualization, advanced networking and applications, cybersecurity, augmented and virtual reality, artificial intelligence and robotics, soft computing data science, and intelligent knowledge discovery. The book is useful, interesting, and informative for a wide range of scientists, engineers, and students.