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Nota di contenuto	-- Computer Science Implementations. -- Taxi Application over Peer-to-Peer Mobile Networks. -- A Predictive Model of Arrival Times for Smart Shuttle Buses in Astana, Kazakhstan. -- Enabling Autonomy through Voice Control: AI-Assisted Mobile Platform. -- Computational Math. -- MaRz: A Fast, Transparent Fuzzy Machine Learning Technique. -- Segmentation and Data Extraction from Carte du Ciel Astrographic Maps. -- Quadratic Sets and $(3 \bmod 5)$ -arcs in $PG(r,5)$. -- The Periodic Table: Chemical Properties and Mendelev meets Physical Properties and Machine Learning. -- Computing Technologies. -- Large Language Models for identification of medical data in unstructured records. -- Impact of the iteration length on the software quality. -- Double-Stranded Differential Evolution and Particle Swarm

Optimization with LibreOffice Nonlinear Programming Solver. -- Analyzing the Geometric Ratios of Greek Vases. -- Implementations in Medicine. -- Assessment of Segmentation Models on Panoramic Radiographic Dental Images. -- 3D Cycle-consistent Adversarial Network for Designing Dental Implant Crown. -- Eliminating Risk involved in using ChatGPT for Clinical Decision Support System. -- Innovative Approaches for the Mental Development and Education of Children with Autism through Mixed Reality. -- Engineering Implementations. -- Applications of Simulation Modeling and Computer Visualizations for Studying Structured Crystals for Implementation in Technical Devices. -- Harnessing Programmable Logic for Quaternion Multiplication. -- Education in Computer Science. -- Digital transformation in primary and secondary education in Bulgaria. -- Building a Chatbot to Adopt an Effective Learning Strategy for Graduate Courses in Computer Science. -- Impact of the Self-training over Formative Assessment in SQL part of University Database Course. -- Teaching and Learning Python by Comparative Visualization. -- An Interdisciplinary Approach in Education of Master Students in Intelligent Sustainable Habitats. -- Cross-Continental Insights: Comparative Analysis of Using AI for Information System Stakeholder Analysis in Undergraduate Courses in the EU and USA.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 20th International Conference on Computer Science and Education in Computer Science, CSECS 2024, held in Sofia, Bulgaria, during June 28–30, 2024. The 19 full papers and 4 short papers were carefully reviewed and selected from 49 submissions. The papers cover the following topics: Computer Science Implementations; Computational Math; Computing Technologies; Implementations in Medicine; Engineering Implementations; Education in Computer Science.
