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Nota di contenuto	A Model for Predicting Crime Risk -- Early Detection of Red Palm Weevil in Date Palm Trees using Machine Learning Approaches -- Unstructured text classification using NLP and LSTM algorithms -- Regression Based Model for Prediction of Road Traffic Congestion: A Case Study of Janpath Segment In Bhubaneswar City -- Automated Landmark Detection for AR Based Craniofacial Surgical Assistance System -- The Influence of Eye-Height and Body Posture on Size Perception in Virtual Reality -- The Effect of Distance on Audiovisual Temporal Integration in an Indoor Virtual Environment -- Inside the Black Box: Modeling a Cybersickness Dose Value through Built-In Sensors of Head-Mounted Displays -- Measuring Audio-Visual Latencies in Virtual Reality Systems -- Development of Virtual CNC Turning Application -- Enhancing Elderly Leisure Experience through Innovative VTuber Interaction in VR with ChatGPT -- Assessing the

Utility of GAN-Generated 3D Virtual Desert Terrain: A User-Centric Evaluation of Immersion and Realism -- Application of Lightweight Image Super-Resolution Technology in Smart Grid Management System -- Research on Portable Intelligent System Based on Lightweight Super-resolved Image Recognition Algorithm -- Research on Intelligent Fault Identification Method Based on UAV Power Inspection -- Lightweight Real-time Intelligent Inspection System for Digital Transmission Security -- Boosting Video Streaming Efficiency through DQN Machine Learning algorithm-based Resource Allocation -- Locomotion in Response of Static Pedestrians in a Mixed Reality Environment -- Neural Responses to Altered Visual Feedback in Computerized Interfaces Driven by Force or Motion Control -- KP-RNN: A Deep Learning Pipeline for Human Motion Prediction and Synthesis of Performance Art -- A Study on the Integration of BIM and Mixed Reality in Steel-structure Maintenance -- Pathway-based Analysis using SVM-RFE for Gene Selection and Classification -- An AI-Assisted Skincare Routine Recommendation System in XR -- TheRole of Artificial Intelligence in Improving Failure Mode and Effects Analysis (FMEA) Efficiency in Construction Safety Management -- Rescue Decision Support for Marine Wrecked Ships Based on Multi-agent Modeling and Simulation -- Development of an AI-Powered Interactive Hand Rehabilitation System -- Formalization and Verification of Fuzzy Approximate Reasoning by Mizar.

Sommario/riassunto

This book gathers a collection of selected works and new research results of scholars and graduate students presented at the 7th International Conference on Artificial Intelligence and Virtual Reality (AIVR 2023) held in Kumamoto, Japan during July 21-23, 2023. The focus of the book is interdisciplinary in nature and includes research on all aspects of artificial intelligence and virtual reality, from fundamental development to the applied system. The book covers topics such as system techniques, performance, and implementation; content creation and modelling; cognitive aspects, perception, user behaviour; AI technologies; interactions, interactive and responsive environments; AI/VR applications and case studies.