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Nota di contenuto	-- Digital Twin: Innovative Approaches in Industry and Healthcare. -- Digital Twins in Industry and Healthcare: Policy Regulation and Future Prospects in Europe. -- XR-PALS: XR Tool for Loco Positioning System. -- Digital Twin-Driven Radar for Human Monitoring Optimization. -- Leveraging Personal Digital Twins to Evaluate and Mitigate Cybersickness within the Industrial Metaverse. -- Application of Machine Learning and Digital Twin in Smart Farming for Space and Extreme. -- “Virtual PVD”: A Virtual Reality approach to explore PVD

Magnetron. -- A Multisensory eXtended Reality Platform for Food Spoilage Detection. -- XCOP: an integrated solution for emergency management during incidents in critical infrastructures. -- 3D vision-based Digital Twin of a Mobile Robot for objects management in Intralogistics scenarios. -- AI-Driven Virtual Construction Management: Enhancing Digital Building Interactions through Intelligent Assistants and Extended Reality. -- Enhancing Industrial Workflows with Augmented Reality (AR): AR -Based Poka Yoke Visual Assembly Guide for a Smart Learning Factory. -- Digitalizing Bank Branches with a New Multichannel Standard to Address Office Closures in Europe. -- From Virtual to Reality: A Structured Framework to Training Humanoid Robots for Elderly Care Using Learning from Demonstration. -- Designing a Digital Twin of the Gut Microbiome: A Data-Driven Approach for Personalized Medicine. -- Extended Reality within Construction Digital Twin for Operators Safety Management: A Case Study. -- The Role of Data in Digital Twins: Value Creation and Interoperability. -- Pro-adaptive Cognitive Assistive Technology: Concept and Application in Reading Support for ADHD. -- NFTs opportunities and challenges for cultural heritage sector: insights from a multiple case study perspective.

Sommario/riassunto

The seven-volume set LNCS 15737-15743 constitutes the proceedings of the International Conference on Extended Reality, XR Salento 2025, held in Otranto, Italy, during June 17-20, 2025. The 128 full papers presented together with 65 short papers were carefully reviewed and selected from 256 submissions. The papers are organized in the following topical sections: Part I: Virtual Reality; and Augmented and Mixed Reality. Part II: Extended Reality; and Extended Reality in Education and Learning. Part III: Transforming Research and Clinical Interventions with eXtended Reality. Part IV: Digital Twin: Innovative Approaches in Industry and Healthcare. Part V: eXtended Reality for Cultural Tourism Sustainability; eXtended Reality for Art, Design, and Entertainment; and Digital Twin and Smart Virtual Representations for Cultural Heritage. Part VI: Crafting Virtual Humans for Immersive XR Applications; and eXtended Reality for Serious Games. Part VII: Artificial Intelligence; Integrating Artificial Intelligence, Computer Vision and Augmented Reality in Computer-Assisted Intervention; and AI-Driven XR Innovations in Healthcare: Bridging Technology and Ethics.