1. Record Nr. UNINA9910720069103321

Titolo	Augmented Reality and Artificial Intelligence : The Fusion of Advanced Technologies / / edited by Vladimir Geroimenko
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	9783031271663 9783031271656
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (383 pages)
Collana	Springer Series on Cultural Computing, , 2195-9064
Disciplina	006.3
Soggetti	User interfaces (Computer systems) Human-computer interaction Artificial intelligence Virtual reality Augmented reality User Interfaces and Human Computer Interaction Artificial Intelligence Virtual and Augmented Reality
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part 1: The practical, theoretical and cultural aspects of integrating augmented reality and artificial intelligence -- Mixed reality and deep learning: Augmenting visual information using generative adversarial networks -- Augmented reality user's experience: AI-based data collection, processing and analysis -- Digital dreams: Speculative futures for artificial intelligence, augmented reality, and the human brain -- Virtual galatea for physical Pygmalion: A phenomenological approach to intimacy in VTubers in the east Asia region -- Augmenting artificial intelligences in fiction: Evolving from primordial internet memes to Cybergods of disruption -- Part 2: The educational use of intelligent augmented environments -- Artificial intelligence, augmented reality and education -- Artificial intelligence, machine learning and extended reality: Potential problem solvers for higher education issues -- Augmented reality and artificial intelligence in education: Toward immersive intelligent tutoring systems --

Augmented/virtual reality and artificial intelligence in dental education and research -- The history of furniture objects: An intelligent augmented reality application -- Part 3: Augmented reality and artificial intelligence in medicine, healthcare and physical activity -- Meta-patients: Using mixed reality patients and an ai framework for simulating life-like clinical examinations -- AI-powered and “augmented” dentistry: Applications, implications and limitations -- Augmented reality and artificial intelligence: Applications in pharmacy -- Artificial intelligence and augmented reality in physical activity: A review of systems and devices -- Exergames, artificial intelligence and augmented reality: Connections to body and sensorial experiences -- Part 4: Combining augmented reality and artificial intelligence to enhance services, retail and recommendations -- Fuse: Towards AI-based future services for generating augmented reality experiences -- Smart extended reality in the metaverse-tailing: The rise of new retail landscape -- Artificial intelligence and extended reality in luxury fashion retail: Analysis and reflection -- The use of artificial intelligence and mixed reality in preventing natural disasters: Practical and legal issues -- Concluding remarks.

Sommario/riassunto

This book is the first research monograph that explores a new research field and practical applications produced by the combined use of two of the most advanced and powerful technologies available in today’s world – Artificial Intelligence (AI) and Augmented Reality (AR). It is written by a team of 50 researchers and practitioners from 16 countries, which has enabled a thorough coverage of emerging or previously unexplored subject areas. The authors consider practical, theoretical, and cultural aspects of “AI-powered AR” and “AR-enriched AI”, and their usage in a large variety of areas, such as education, medicine, healthcare, dentistry, pharmacy, active lifestyle, smart services, fashion, retail, recommender systems, and several others. Augmented Reality and Artificial Intelligence: The Fusion of Advanced Technologies is essential reading not only for researchers, practitioners and technology developers, but also for students (both graduates and undergraduates) and anyone who is interested in building a comprehensive understanding of the emerging fields of “intelligent augmented environments” and “artificial intelligence presented by augmented reality”. .