

1. Record Nr.	UNINA9910592992003321
Titolo	Medical Visualization and Applications of Technology // edited by Paul M. Rea
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	9783031067358 9783031067341
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (327 pages)
Collana	Biomedical Visualization, , 2731-6149 ; ; 1
Disciplina	780 610.2856
Soggetti	Medicine - Research Biology - Research Anatomy Medical education Virtual reality Augmented reality Biomedical Research Medical Education 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 I. Healthcare -- Chapter 1. Is It Time to FONA Friend? A Novel Mixed Reality Front of Neck Access Simulator -- Chapter 2. "Learning About Skin Breakdown" – Design, Development and Evaluation of an Augmented Reality Application to Inform about Pressure Ulcers (sores) and Moisture Lesions -- Chapter 3. The Use of 3D-Printing and Injection Moulding in the Development of a Low-Cost, Perfused Renal Malignancy Model for Training of Robot-Assisted Laparoscopic Partial Nephrectomy -- Chapter 4. The Co-IMMUNicate App: An Engaging and Entertaining Education Resource on Immunity to Respiratory Viruses -- Part II. Education -- Chapter 5. Application of AR and 3D Technology for Learning Neuroanatomy -- Chapter 6. Communicative Powers of Interactive Digital Mediums in the Field of Polyomics -- Chapter 7.

SkeletonVR: Canine Skeleton VR -- Chapter 8. Using Holograms to Engage Young People with Anatomy -- Chapter 9. The Digital Dolphin: Are 3D Mobile Based and Interactive Models a Useful Aid to Volunteers on Stranding Schemes Learning the Basic Anatomy and Pathology of Cetaceans? -- Chapter 10. The Impact of the COVID Crisis on Anatomical Education: A Systematic Review.

Sommario/riassunto

This edited book explores the use of technology to enable us to visualize the life sciences in a more meaningful and engaging way. It will enable those interested in visualization techniques to gain a better understanding of the applications that can be used in visualization, imaging and analysis, education, engagement and training. The reader will also be able to learn about the use of visualization techniques and technologies for the historical and forensic settings. The reader will be able to explore the utilization of technologies from a number of fields to enable an engaging and meaningful visual representation of the biomedical sciences. We have something for a diverse and inclusive audience ranging from healthcare, patient education, animal health and disease and pedagogies around the use of technologies in these related fields. The first four chapters cover healthcare and detail how technology can be used to illustrate emergency surgical access to the airway, pressure sores, robotic surgery in partial nephrectomy, and respiratory viruses. The last six chapters in the education section cover augmented reality and learning neuroanatomy, historical artefacts, virtual reality in canine anatomy, holograms to educate children in cardiothoracic anatomy, 3D models of cetaceans, and the impact of the pandemic on digital anatomical educational resources.

2. Record Nr.	UNINA9911016152203321
Autore	Wei Heng
Titolo	International Conference on Transportation and Development 2025 : Transportation Safety and Emerging Technologies
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ISBN	0-7844-8619-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (835 pages)
Disciplina	629.04
Soggetti	Transportation engineering Traffic safety
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This collection contains 71 peer-reviewed papers on transportation safety and emerging technologies presented at the International Conference on Transportation and Development 2025, held in Glendale, Arizona, June 8-11, 2025.