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Descrizione fisica	1 online resource (xv, 181 pages) : illustrations
Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 1235
Disciplina	616.0754
Soggetti	Biotechnology Bioinformatics Computational and Systems Biology Bioinformatica Biotecnologia Enginyeria biomèdica Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Web-based 3D visualisation of biological and medical data -- Ultrasound-Guided Regional Anaesthesia: Visualising Nerve and Needle -- Scanning conditions in functional connectivity magnetic resonance imaging: how to standardise resting-state for optimal data acquisition and visualisation? -- Interactive VR Stroke Rehabilitation System Design -- Systematic review of Augmented and Virtual Reality in anatomical education -- Interdimensional travel: Visualisation of 3D-2D transitions in anatomy learning -- Anatomy Visualizations Using Stereopsis: Assessment and Implication of Stereoscopic Virtual Models in Anatomical Education -- Storyboarding in Medical Animation -- The hidden curriculum of imaging and utilisation of unregulated social media resources within clinical education -- Online distance learning in biomedical sciences: Community, belonging and presence. .
Sommario/riassunto	This edited book explores the use of technology to enable us to visualise the life sciences in a more meaningful and engaging way. It will enable those interested in visualisation techniques to gain a better understanding of the applications that can be used in visualisation,

imaging and analysis, education, engagement and training. The reader will be able to explore the utilisation of technologies from a number of fields to enable an engaging and meaningful visual representation of the biomedical sciences, with a focus in this volume related to anatomy, and clinically applied scenarios. The first eight chapters examine a variety of tools, techniques, methodologies and technologies which can be utilised to visualise and understand biological and medical data. This includes web-based 3D visualisation, ultrasound, virtual and augmented reality as well as functional connectivity magnetic resonance imaging, storyboarding and a variety of stereoscopic and 2D-3D transitions in learning. The final two chapters examine the pedagogy behind digital techniques and tools from social media to online distance learning techniques.

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