

Work 3, searching for scientific materials.

The aim of this exercise was to explore and manage scientific material following the given subject : “*immersive visualization of medical data*”.

A - Finding Article :

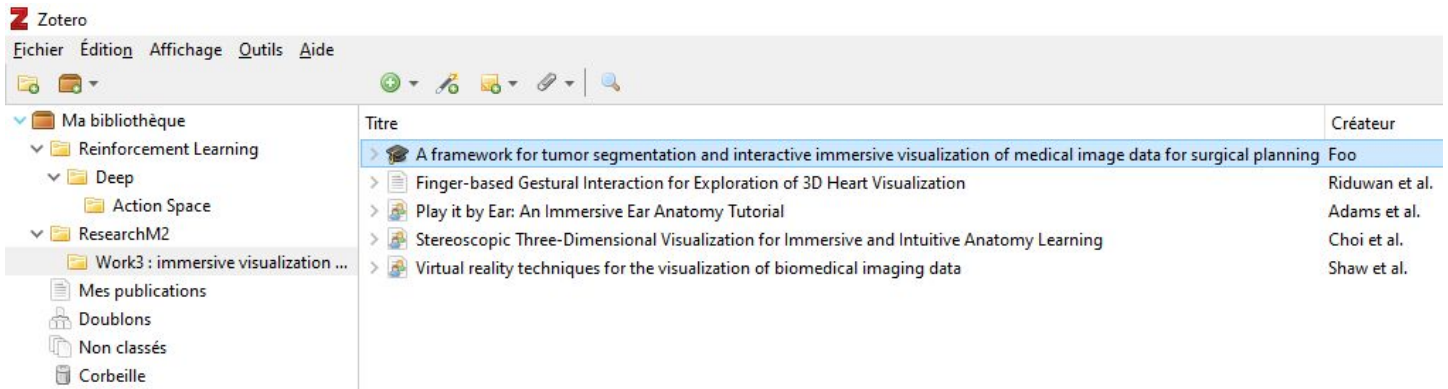
For this purpose, I have chosen for the first exercise the following articles :

	Title	Author(s)	Other info
ACM Library	Design-led 3D visualization of nanomedicines in virtual reality	Andrew R Lilja, Campbell W Strong, and others ...	3D, Visualization, Virtual Reality, Medecine, Therapy Tracking
	Using 3D to visualise medical data	Monica Tavanti, and others ...	3D, Visualization, Clustering, Medical, Exploration, Big Data
	VRRRRoom: Virtual Reality for Radiologists in the Reading Room	Maurício Sousa, Daniel Mendes, and others ...	3D, Visualization, Virtual Reality, Radiologist, Environnement conditions, Reducing unsuitable conditions
IEEE Xplore	Play it by Ear: An Immersive Ear Anatomy Tutorial	Haley Adams, Jack Noble, and others ...	3D, Visualization, Ear, Learning Medical, Improve Comprehension of Ears
	Stereoscopic Three-Dimensional Visualization for Immersive and Intuitive Anatomy Learning	Kup-Sze Choi, Shu-Ting Chan, and others ...	3D, Visualization, Anatomy, Learning Medical, Multi-Layer Anatomy, Improve Comprehension of spatial anatomy
	Patient-provider geographic map: An interactive visualization tool of patients' selection of health care providers	Zhongyuan Yu, Kara Pepe, and others ...	2D, Visualization, Choropleth Maps, Indicators, Access to health care, Decision and Policy
Springer Link	Virtual reality in advanced medical immersive imaging: a workflow for introducing virtual reality as a supporting tool in medical imaging	Markus M. Knodel, Babett Lemke, and others ...	3D, Visualization, Virtual Reality, Anatomy Rendering, Medical Planning
	Immersive Technology and Medical Visualisation: A User's Guide	Neil McDonnell	3D, Visualization, Augmented Reality, Virtual Reality, State of the Art, Advice to use new technologies

	Development and Procedural Evaluation of Immersive Medical Simulation Environments	Patrick Wucherer, Philipp Stefan, and others ...	3D, Visualization, Virtual Reality, Surgery Environnement, Creating Backups of operation, Analysis of crisis operation
Science Direct	Finger-based Gestural Interaction for Exploration of 3D Heart Visualization	Mohammad Riduwana, Ahmad HoirulBasori, and others ...	3D, Visualization, Finger Gesture Control, Learning Medical, Improve Comprehension of Heart
	Immersive Three-Dimensional Modeling and Virtual Reality for Enhanced Visualization of Operative Neurosurgical Anatomy	Samuel B.Tomlinson, Benjamin K.Hendricks, and others ...	3D, Visualization, State of the art, Surgery, Medical Resources
	Visualization of porcine eye anatomy by X-ray microtomography	Bartosz Leszczyńska, Paulina Sojka-Leszczyńska, and others ...	3D, Visualization, Learning Medical, Porcine, Improve Comprehension of Porcine Eye, Micro-CT
Google	Virtual Reality Techniques for the Visualization of Biomedical Imaging Data	M. A. Shaw, w. B. Spilman Jr.	2D, Visualization, Analysis, Drugs and Implant Environnement Tracking, Software
	VRvisu: A Tool for Virtual Reality Based Visualization of Medical Data	Sandeep Reddivari, Jason Smith, and others ...	3D, Visualization, Virtual Reality, Software, Tumor, Analysis, Improve Comprehension of Tumor
	MedVis: A Real-Time Immersive Visualization Environment for the Exploration of Medical Volumetric Data	Rui Shen, Pierre Boulanger, and others ...	3D, Visualization, 3D Framework for BioMedical, Analysis tool, Virtual reality
Google scholar	A framework for tumor segmentation and interactive immersive visualization of medical image data for surgical planning	Jung Leng Foo	3D, Visualization, Software, Tumor, Analysis, Statistics, Improve Comprehension of Tumor, Segmentation
	Toward a natural interface to virtual medical imaging environments	Luigi Gallo ,Giuseppe De Pietro, and others ...	3D, Visualization, Speech Recognition, Improve Spatial anatomy analysis, Software
	How 3D immersive visualization is changing medical diagnostics	Anton H. J. Koning	3D, Visualization, State of the art, Pros and Cons of each tool, Advice to use new technologies

B - Reference Manager :

Then we had to use a reference manager such as Zotero, select five of the most relevant papers following the topic and import them in the software. Here is a proof of my work :



C - APA style :

In order to conclude, we had to represent all the article as the [APA style](#) format :

[1] M. A. Shaw, W. B. Spilman Jr., K. E. Meissnera, Gabbard. (2001). Virtual reality techniques for the visualization of biomedical imaging data. (Proceedings volume 4259). the international symposium on biomedical optics. <https://doi.org/10.1117/12.432497>

[2] Foo, Jung Leng. (2008). A framework for tumor segmentation and interactive immersive visualization of medical image data for surgical planning. Retrospective Theses and Dissertations. (Iowa State University). <https://doi.org/10.31274/rtd-180813-16988>

[3] H. Adams, J. Noble, William G. Morrel, A. Rivas, J. R. Shinn, R. Labadie, B. Bodenheimer. (2019). Play it by Ear: An Immersive Ear Anatomy Tutorial. (2019 IEEE Conference on Virtual Reality and 3D User Interfaces (VR)). IEEE. <https://doi.org/10.1109/VR.2019.8798192>

[4] Kup-Sze Choi, Shu-Ting Chan, Colman Ho-Man Leung, Yim-Pan Chui. (2016). Stereoscopic Three-Dimensional Visualization for Immersive and Intuitive Anatomy Learning. (2016 IEEE Eighth International Conference on Technology for Education (T4E)). IEEE. <https://doi.org/10.1109/T4E.2016.046>

[5] M. Riduwan S., A. H. Basori, F. Mohamed. (2013). Finger-based Gestural Interaction for Exploration of 3D Heart Visualization. (97th volume). Procedia - Social and Behavioral Sciences. <https://doi.org/10.1016/j.sbspro.2013.10.288>