

Multimedia Appendix 1. Search terms used in each database.

Scientific database	Search option	Search term
ScienceDirect online database	Expert search	TITLE-ABSTR-KEY("3D" OR "3 D" OR "3-D" OR "3_D" OR "three-dimensional" OR "three dimensional" OR "3 dimensional" OR "three D" OR "three-D") AND TITLE-ABSTR-KEY("virtual world" OR "virtual life" OR "virtual space" OR "virtual environment" OR "virtual reality" OR "virtual community" OR "social media" OR "social network" OR "cyberspace" OR "simulated environment" OR "virtual inhabited world" OR "inhabited space" OR "second life" OR "active world" OR "avatar") AND TITLE-ABSTR-KEY("health" OR "medical" OR "medicine" OR "clinical" OR "nursing" OR "illness" OR "disease" OR "diagnosis" OR "care" OR "pharmacy" OR "nutrition" OR "physician" OR "doctor" OR "hospital" OR "surgical" OR "EMR" OR "EHR" OR "HIS").
ProQuest Computing	Command line search	all("3D" OR "3 D" OR "3-D" OR "3_D" OR "three-dimensional" OR "three dimensional" OR "3 dimensional" OR "three D" OR "three-D") AND all("virtual world" OR "virtual life" OR "virtual space" OR "virtual environment" OR "virtual reality" OR "virtual community" OR "social media" OR "social network" OR "cyberspace" OR "simulated environment" OR "virtual inhabited world" OR "inhabited space" OR "second life" OR "active world" OR "avatar") AND all("health" OR "medical" OR "medicine" OR "clinical" OR "nursing" OR "illness" OR "disease" OR "diagnosis" OR "care" OR "pharmacy" OR "nutrition" OR "physician" OR "doctor" OR "hospital" OR "surgical" OR "EMR" OR "EHR" OR "HIS")
PubMed	PubMed advanced search builder	((("3D"[Title/Abstract]) OR ("3 D"[Title/Abstract]) OR ("3-D"[Title/Abstract]) OR ("3_D"[Title/Abstract]) OR ("three-dimensional"[Title/Abstract]) OR ("three dimensional"[Title/Abstract]) OR ("3 dimensional"[Title/Abstract]) OR ("three D"[Title/Abstract]) OR ("three-D"[Title/Abstract])) AND (("virtual world"[Title/Abstract]) OR ("virtual life"[Title/Abstract]) OR ("virtual space"[Title/Abstract]) OR ("virtual environment"[Title/Abstract]) OR ("virtual reality"[Title/Abstract]) OR ("virtual community"[Title/Abstract]) OR ("social media"[Title/Abstract]) OR ("social network"[Title/Abstract]) OR ("cyberspace"[Title/Abstract]) OR ("simulated environment"[Title/Abstract]) OR ("virtual inhabited world"[Title/Abstract]) OR ("inhabited space"[Title/Abstract]) OR ("second life"[Title/Abstract]) OR ("active world"[Title/Abstract]) OR ("avatar"[Title/Abstract])) AND (("health"[Title/Abstract]) OR ("medical"[Title/Abstract]) OR ("medicine"[Title/Abstract]) OR ("clinical"[Title/Abstract]) OR ("nursing"[Title/Abstract]) OR ("illness"[Title/Abstract]) OR ("disease"[Title/Abstract]) OR ("diagnosis"[Title/Abstract]) OR ("care"[Title/Abstract]) OR ("pharmacy"[Title/Abstract]) OR ("nutrition"[Title/Abstract]) OR ("physician"[Title/Abstract]) OR ("doctor"[Title/Abstract]) OR ("hospital"[Title/Abstract]) OR ("surgical"[Title/Abstract]) OR ("EMR"[Title/Abstract]) OR ("EHR"[Title/Abstract]) OR ("HIS"[Title/Abstract])) AND ("1990"[Date - Publication] : "2013"[Date - Publication]))
IEEE Xplore	Command search	("Abstract": "3D" OR "Abstract": "3 D" OR "Abstract": "3-D" OR "Abstract": "3_D" OR "Abstract": "three-dimensional" OR "Abstract": "three dimensional" OR "Abstract": "3 dimensional" OR "Abstract": "three D" OR "Abstract": "three-D") AND ("Abstract": "virtual world" OR "Abstract": "virtual life" OR "Abstract": "virtual space" OR "Abstract": "virtual environment" OR "Abstract": "virtual reality" OR "Abstract": "virtual community" OR "Abstract": "social media" OR "Abstract": "social network" OR "Abstract": "cyberspace" OR "Abstract": "simulated environment" OR "Abstract": "virtual inhabited world" OR "Abstract": "inhabited space" OR "Abstract": "second life" OR "Abstract": "active world" OR "Abstract": "avatar") AND ("Abstract": "health" OR "Abstract": "medical" OR "Abstract": "medicine" OR "Abstract": "clinical" OR "Abstract": "nursing" OR "Abstract": "illness" OR "Abstract": "disease" OR "Abstract": "diagnosis" OR "Abstract": "care" OR

		"Abstract": "pharmacy" OR "Abstract": "nutrition" OR "Abstract": "physician" OR "Abstract": "doctor" OR "Abstract": "hospital" OR "Abstract": "surgical" OR "Abstract": "EMR" OR "Abstract": "EHR" OR "Abstract": "HIS")
ACM Digital Library	Advanced search	("Abstract": "3D" OR "Abstract": "3 D" OR "Abstract": "3-D" OR "Abstract": "3_D" OR "Abstract": "three-dimensional" OR "Abstract": "three dimensional" OR "Abstract": "3 dimensional" OR "Abstract": "three D" OR "Abstract": "three-D") AND ("Abstract": "virtual world" OR "Abstract": "virtual life" OR "Abstract": "virtual space" OR "Abstract": "virtual environment" OR "Abstract": "virtual reality" OR "Abstract": "virtual community" OR "Abstract": "social media" OR "Abstract": "social network" OR "Abstract": "cyberspace" OR "Abstract": "simulated environment" OR "Abstract": "virtual inhabited world" OR "Abstract": "inhabited space" OR "Abstract": "second life" OR "Abstract": "active world" OR "Abstract": "avatar") AND ("Abstract": "health" OR "Abstract": "medical" OR "Abstract": "medicine" OR "Abstract": "clinical" OR "Abstract": "nursing" OR "Abstract": "illness" OR "Abstract": "disease" OR "Abstract": "diagnosis" OR "Abstract": "care" OR "Abstract": "pharmacy" OR "Abstract": "nutrition" OR "Abstract": "physician" OR "Abstract": "doctor" OR "Abstract": "hospital" OR "Abstract": "surgical" OR "Abstract": "EMR" OR "Abstract": "EHR" OR "Abstract": "HIS")