COURSE DETAIL

3.00

VIRTUAL REALITY Country Taiwan **Host Institution National Taiwan University** Program(s) National Taiwan University **UCEAP Course Level Upper Division UCEAP Subject Area(s)** Computer Science **UCEAP Course Number** 125 **UCEAP Course Suffix UCEAP Official Title** VIRTUAL REALITY **UCEAP Transcript Title** VIRTUAL REALITY **UCEAP Quarter Units** 4.50 **UCEAP Semester Units**

Course Description

This course provides an introduction to virtual reality. Topics: 3D sound technology; space tracker, motion tracker: mechanical, optical, ultrasound, magnetic; head mounted display (HMD), retina display; force feedback devices; modeling (prototyping, building large models, physically based modeling, motion dynamics); global illumination algorithms (radiocity, volume rendering, scientific visualization); texture mapping and advanced animation; graphics packages: OpenGL, DirectX; and high performance graphics architectures (Pixel-Planes, Pixel Machine), SGI reality engine, PC graphics (nVidia, ATI), accelerator chips and cards).

Language(s) of Instruction

English

Host Institution Course Number

CSIE7633

Host Institution Course Title

VIRTUAL REALITY

Host Institution Course Details

http://www.cmlab.csie.ntu.edu.tw/~ming/courses/vr/

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science and Information Engineering

Course Last Reviewed

2022-2023

Print