COURSE DETAIL

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 3.00

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

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