INF584
Image Synthesis

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INF584 – Image Synthesis

Models
- Sensor
- Scene Object
- Light Source
- View Ray
- Shadow Ray

Algorithms
- Visibility
- Rendering Equation
- Motion

Appearance
- Models
- Algorithms
- Rendering Equation
- Real Time Rendering

Post-processing
- MRTs
- Depth buffer
- Normal buffer
- Albedo buffer
- Adaptive map

Implementations
- OpenGL
- Vulkan
- C++
- GLSL
- OpenCL

GPU Pipeline
- Input Assembler
- Vertex Shader
- Control Shader
- Tessellator
- Eval. Shader
- Geometry Shader
- Rasterization
- Fragment Shader
- Output Manager
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CAD, architecture & visualization

Visual Special Effects and Computer Animation

Video games and interactive applications