

Sampling and Reconstruction of Visual Appearance

CSE 274 [Winter 2018], Lecture 13

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Applications

- Monte Carlo Rendering (biggest application)
 - Light Transport Acquisition / Many Light Rendering
 - Light Fields and Computational Photography
 - Animation/Simulation (not covered in course)
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- Course has covered broad range of applications
 - And several approaches, mathematical models
 - End with new frontiers, current work

Today's Frontiers

- (Deep) Machine Learning, CNNs
 - Applied to image synthesis, not recognition
 - Have seen applications in light fields already
 - New frontier in Monte Carlo Rendering
 - Real-Time Path Tracing (towards 1spp)
 - New applications (VR, relighting, animation, ...)
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- Thank you for hard work in course (good luck on final presentations and final project reports)