

Forward Light Cuts

Additional comparisons

Gilles LAURENT^{+,*}
Grégoire de LA RIVIÈRE⁺

Cyril DELALANDRE⁺
Tamy BOUBEKEUR^{*}

⁺ Dassault Systèmes

^{*} LTCI, CNRS, Telecom ParisTech, Université Paris-Saclay

Comparison measures

- ssim: structural similarity
- relMSE: relative Mean Square Error

CAR — Direct Lighting

Rendering Time: 2 ms



CAR — SSDO

Comparison with DSS: ssim: 0.694433 — relMSE: 0.213773

Comparison with FLC: ssim: 0.694493 — relMSE: 0.213965

Rendering Time: 6 ms



CAR — DSS

Comparison with SSDO: ssim: 0.694433 — relMSE: 1.59487

Comparison with FLC: ssim: 0.998258 — relMSE: 0.00123699

Rendering Time: 28 ms



CAR — FLC

Comparison with SSDO: ssim: 0.694493 — relMSE: 1.59474

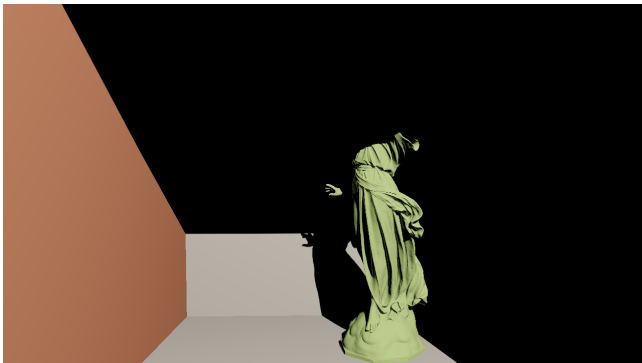
Comparison with DSS: ssim: 0.998258 — relMSE: 0.00170423

Rendering Time: 20 ms



LUCY — Direct Lighting

Rendering Time: 18 ms



LUCY — SSDO

Comparison with DSS: ssim: 0.857024 — relMSE: 0.150659

Comparison with FLC: ssim: 0.892178 — relMSE: 0.121843

Rendering Time: 20 ms

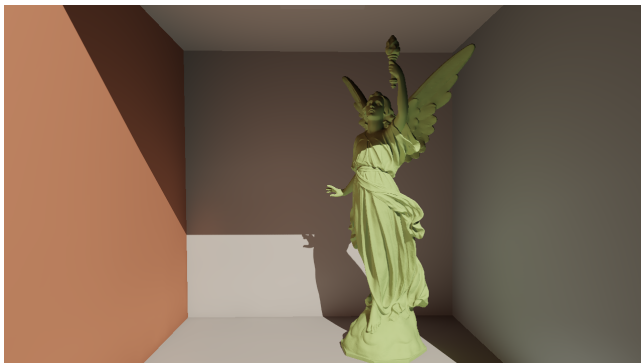


LUCY — DSS

Comparison with SSDO: ssim: 0.857024 — relMSE: 0.629545

Comparison with FLC: ssim: 0.980665 — relMSE: 0.0356978

Rendering Time: 80 ms

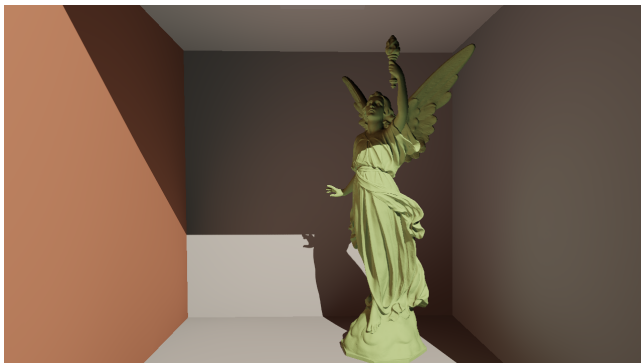


LUCY — FLC

Comparison with SSDO: ssim: 0.892178 — relMSE: 0.4196

Comparison with DSS: ssim: 0.980665 — relMSE: 0.0188336

Rendering Time: 35 ms



PLATFORM — Direct Lighting

Rendering Time: 1 ms



PLATFORM — SSDO

Comparison with DSS: ssim: 0.785196 — relMSE: 0.189122

Comparison with FLC: ssim: 0.715833 — relMSE: 0.207166

Rendering Time: 5 ms



PLATFORM — DSS

Comparison with SSDO: ssim: 0.785196 — relMSE: 1.52387

Comparison with FLC: ssim: 0.880504 — relMSE: 0.146471

Rendering Time: 22 ms



PLATFORM — FLC

Comparison with SSDO: ssim: 0.715833 — relMSE: 2.97925

Comparison with DSS: ssim: 0.880504 — relMSE: 0.221887

Rendering Time: 14 ms



SANMIGUEL — Direct Lighting

Rendering Time: 9 ms



SANMIGUEL — SSDO

Comparison with DSS: ssim: 0.821022 — relMSE: 0.353485

Comparison with FLC: ssim: 0.802385 — relMSE: 0.170236

Rendering Time: 13 ms



SANMIGUEL — DSS

Comparison with SSDO: ssim: 0.821022 — relMSE: 0.18333

Comparison with FLC: ssim: 0.900324 — relMSE: 0.0692068

Rendering Time: 35 ms



SANMIGUEL — FLC

Comparison with SSDO: ssim: 0.802385 — relMSE: 0.231624

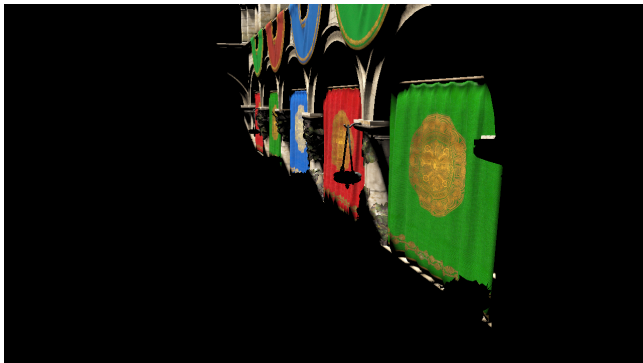
Comparison with DSS: ssim: 0.900324 — relMSE: 0.130385

Rendering Time: 22 ms



SPONZA — Direct Lighting

Rendering Time: 4 ms

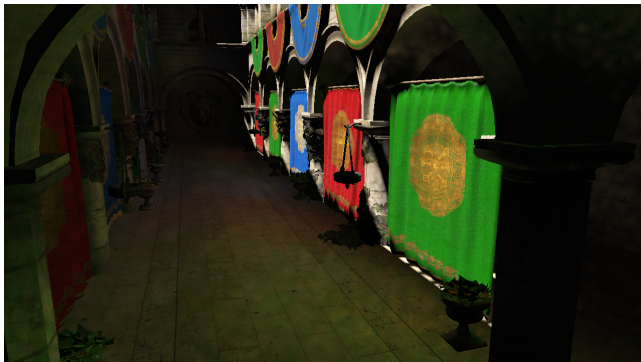


SPONZA — SSDO

Comparison with DSS: ssim: 0.873803 — relMSE: 0.0953518

Comparison with FLC: ssim: 0.800498 — relMSE: 0.167209

Rendering Time: 7 ms



SPONZA — DSS

Comparison with SSDO: ssim: 0.873803 — relMSE: 0.413033

Comparison with FLC: ssim: 0.897696 — relMSE: 0.0791661

Rendering Time: 19 ms



SPONZA — FLC

Comparison with SSDO: ssim: 0.800498 — relMSE: 0.997161

Comparison with DSS: ssim: 0.897696 — relMSE: 0.212128

Rendering Time: 8 ms

