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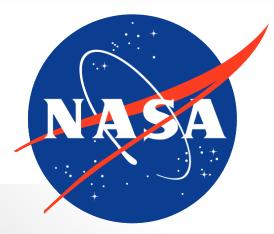
Collaborations













Main projects

this is not an exhaustive list refer to the link at the end for more projects





Chameleon

Intuitive Editing of Visual Appearance from Real-World Datasets

Visual appearance

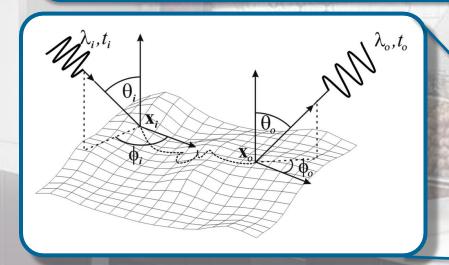


Visual appearance



Why it is difficult

Complex interaction of light and matter High-dimensional appearance functions...



$$(x, y, t, q, f, I)_{in} \rightarrow (x, y, t, q, f, I)_{out}$$

Francesco Legrenzi

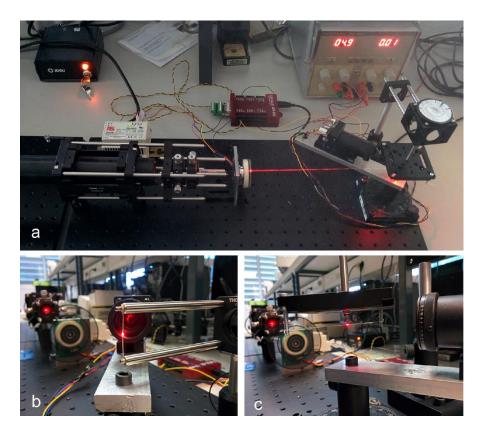
Why it is difficult

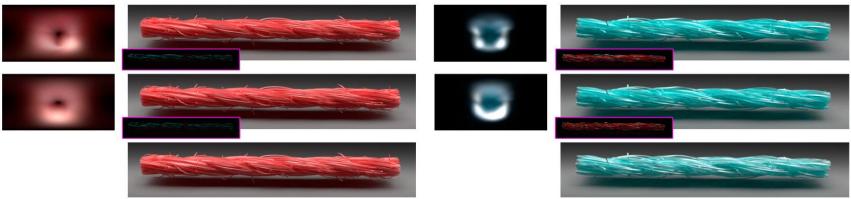
...on a multi-scale domain



"The intricate dance of fabric and light"
-- Szymon Rusinkiewicz

Princeton University





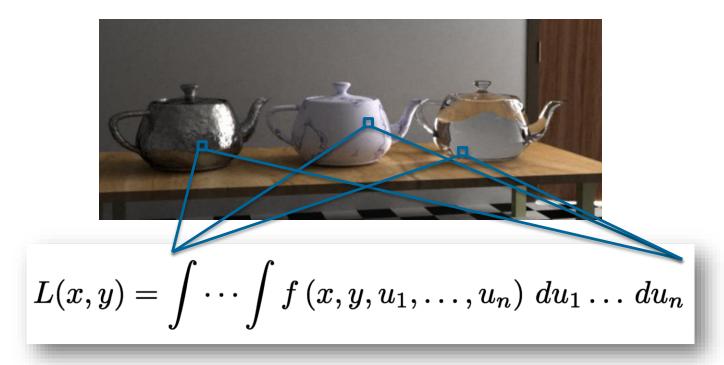




Rendering

Why it is difficult

Challenge: each pixel requires the evaluation of a multidimensional function



Diego Gutierrez

CHAMELEON

Light Transport Simulation in Participating Media



Light Transport Simulation in Participating Media



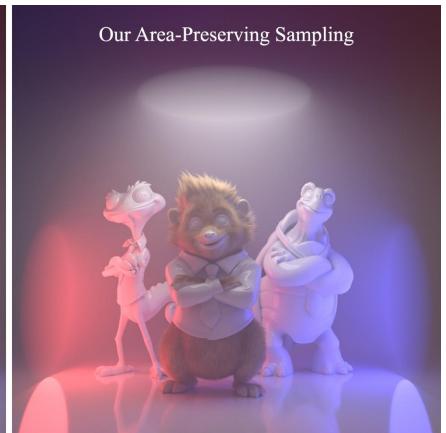
Light Transport Simulation in Participating Media

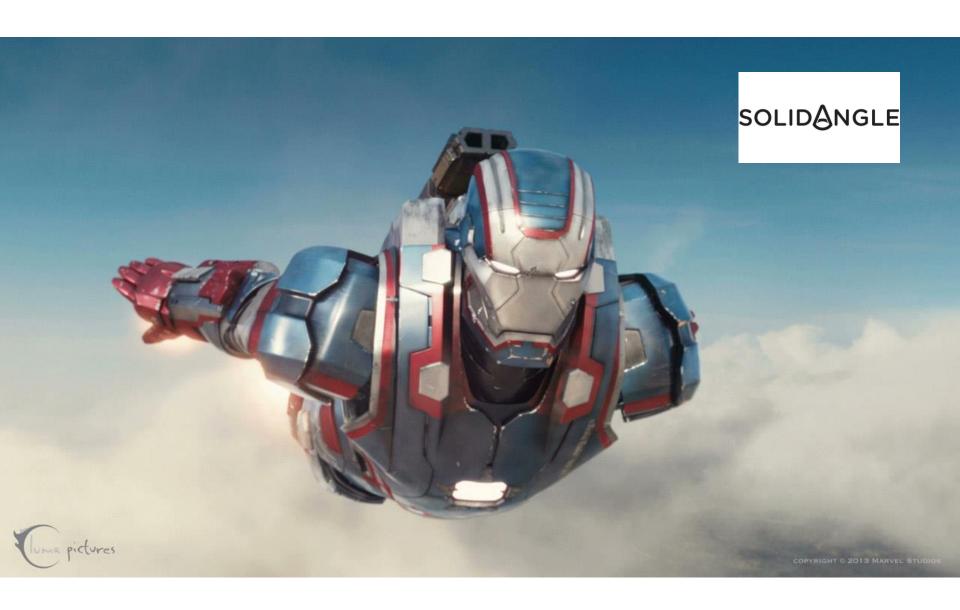










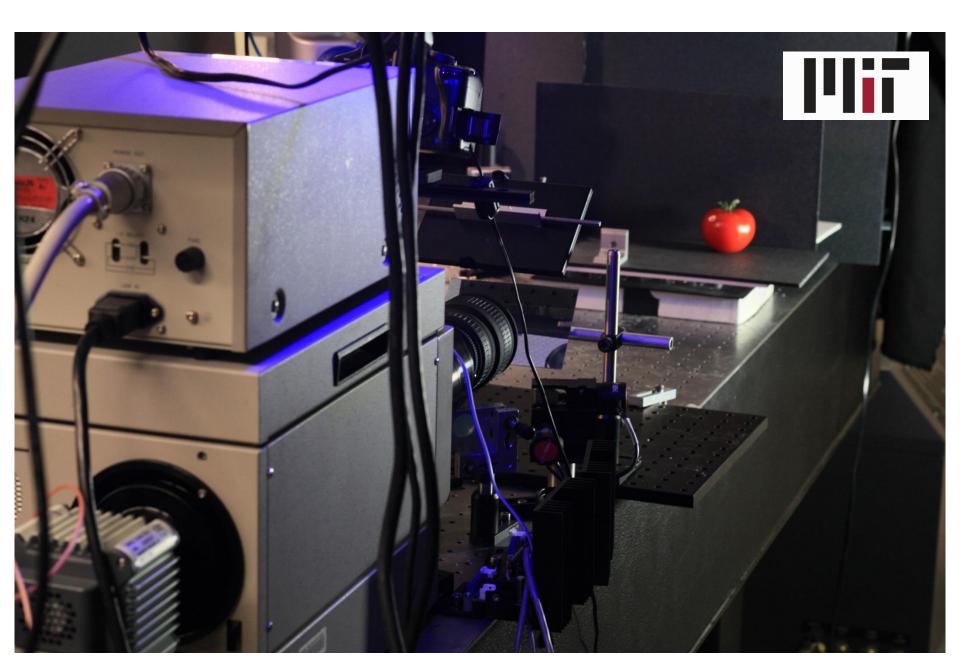




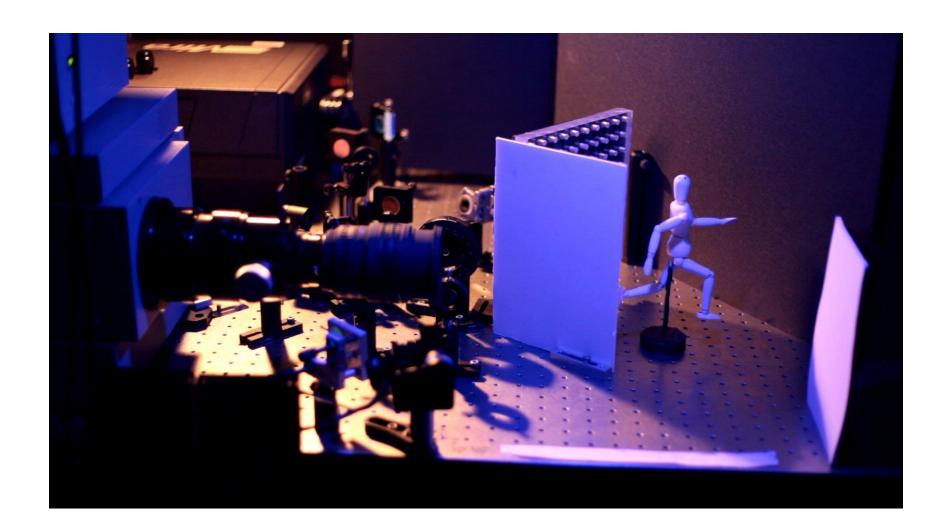


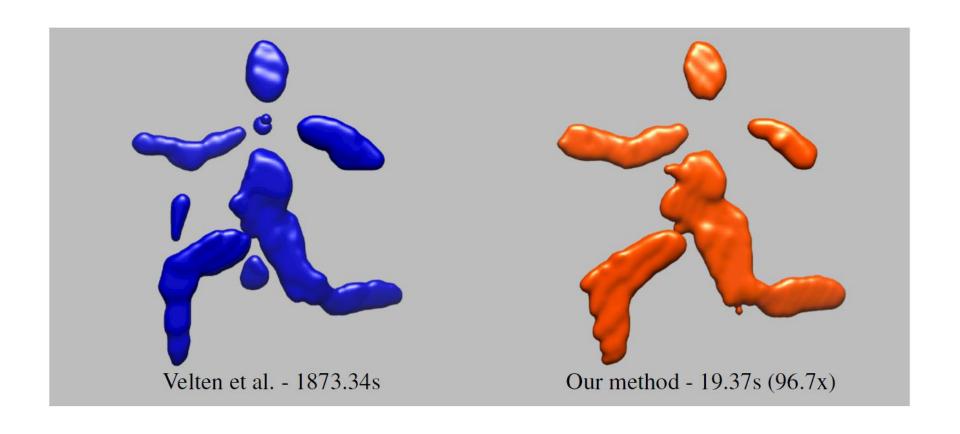
Reveal

Scene Recovery Using an Extended Plenoptic Function

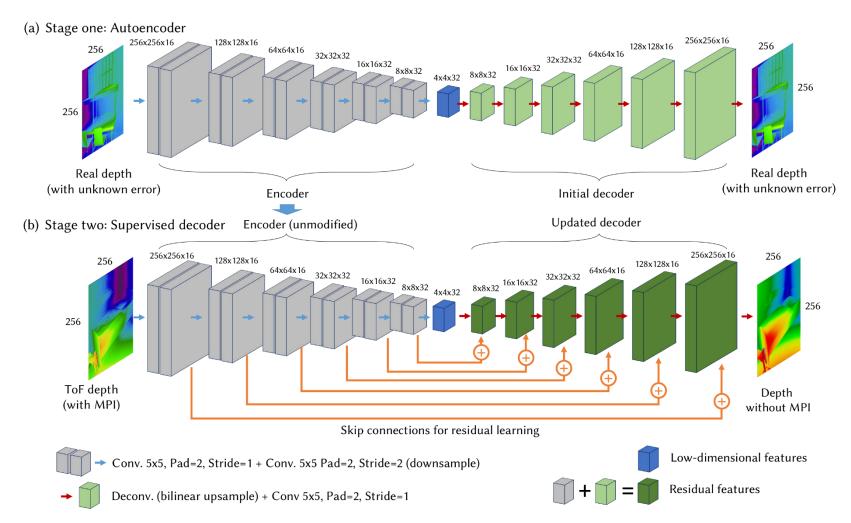














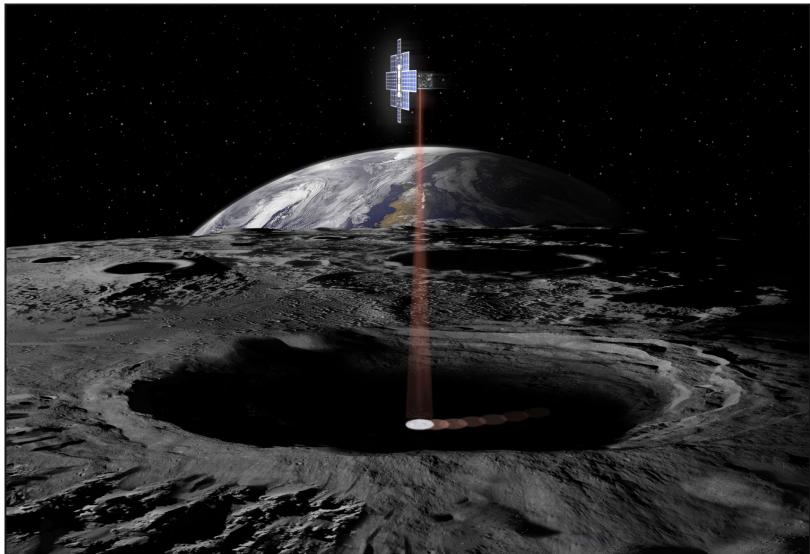


Periscope

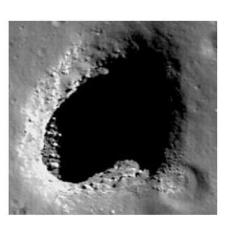
Subsurface Cave Optical Explorer

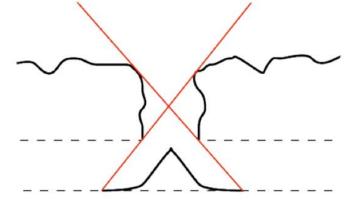


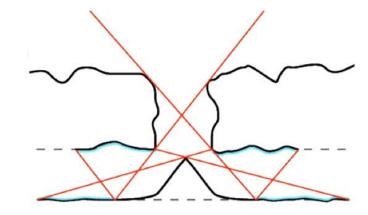
















DIVE

Ayuda al diagnóstico temprano de problemas visuales



Virtual reality







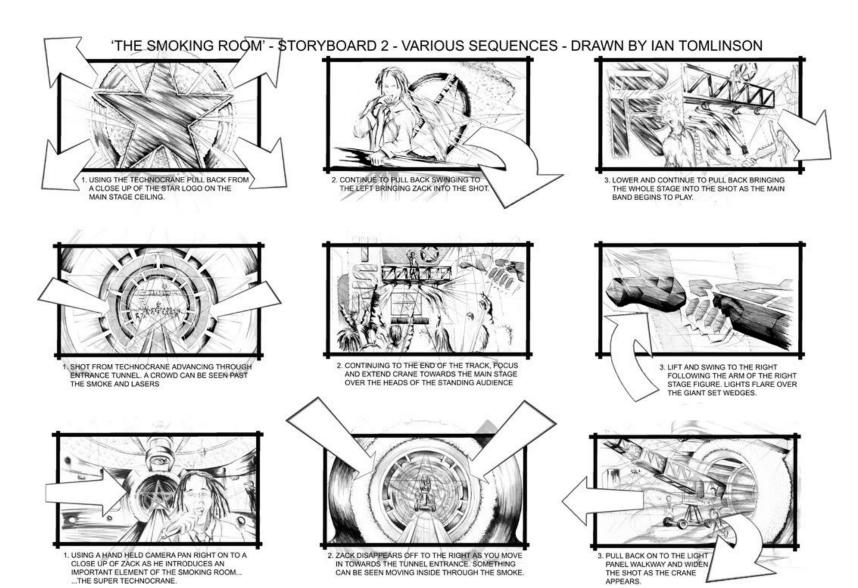












We are always looking for:

Motivated, bright students

All engineering degrees, math, physics...

Many fields (e.g. machine learning!)

Any level: TFG, Master, PhD, prácticas...

Interested?

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& come talk to us!

