State of the Art in Photon Density Estimation

Conclusions

SIGGRAPH 2012, Course

THURSDAY, 9 AUGUST 2:00 PM - 5:15 PM | Room 408B

Regular Photon Density Estimation

- Original photon mapping
- Relaxation of photon distributions
- Photon differentials

Progressive Photon Density Estimation

- Progressive photon mapping
- Extensions on various aspects
- Probabilistic formulation for easy conversion

Participating Media

- Photon mapping and participating media
- EM-based density estimation
- Photon beams

Industry Applications

- Artist-friendly rendering system of beams
- Photon mapping in PRMan
- Progressive photon mapping in LuxRender

Wikimedia Commons

Acknowledgements

- Speakers
  - Guillaume, Per, Jeppe, Wenzel, Andrew, Henrik, Matthias, Michael, Ben

Course Webpage

http://cs.au.dk/~toshiya/starpm2012

(updated course notes and slides)

Thank You!