

CS 7650 Realistic Image Synthesis Homework 1 (Due Th May 19)

Use Monte Carlo summation to estimate the sum:

$$\sum_{i=1}^{10000} \frac{1}{i^2}$$

Use 1000 samples with

- unstratified random sampling (each i is equally likely),
- stratified sampling (each i is equally likely),
- unstratified importance sampling (probability proportional to $1/i$).
- stratified importance sampling (probability proportional to $1/i$).

Give your results on a web page that you will keep for the whole class.