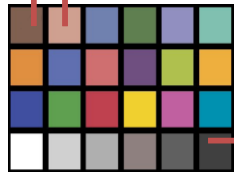


Patch-based approach

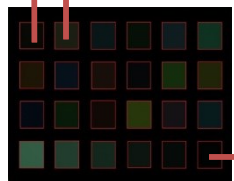
Color chart
with known
CIE XYZ values



$$S = [s_1 \ s_2 \ \dots \ s_n]$$



Camera



Extract color samples

$$D = [d_1 \ d_2 \ \dots \ d_n]$$

Build linear system

Solve linear
system

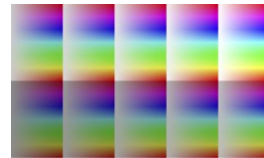
$$T = D \times S^{-1}$$

Solve directly for T

A

Our approach

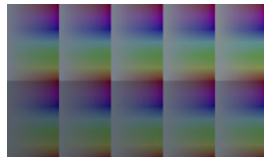
Color chart
with known
CIE XYZ values



B



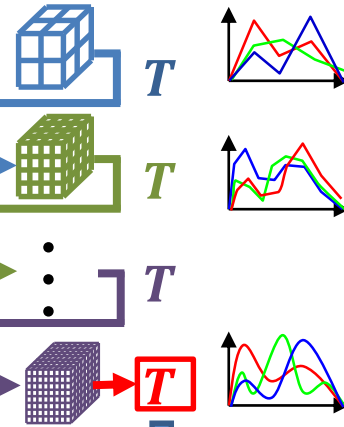
Camera



B

Construct histograms

Multi-grid optimization



Find T that brings histograms into
alignment (i.e., minimize KL div)

B