Fun with homographies

Original image

St. Petersburg photo by A. Tikhonov

Virtual camera rotations
Analysing patterns and shapes

What is the shape of the b/w floor pattern?

The floor (enlarged)

Automatically rectified floor

Slide from Criminisi
Analysing patterns and shapes

From Martin Kemp *The Science of Art* (manual reconstruction)

2 patterns have been discovered!
Analysing patterns and shapes

What is the (complicated) shape of the floor pattern?

St. Lucy Altarpiece, D. Veneziano
Slide from Criminisi

Automatically rectified floor
Analysing patterns and shapes

From Martin Kemp, *The Science of Art* (manual reconstruction)

Slide from Criminisi

Automatic rectification
Julian Beever: Manual Homographies

http://users.skynet.be/J.Beever/pave.htm