A Psychophysical Analysis of Fabricated Anisotropic Appearance

SUPPLEMENTAL MATERIAL

J. Filip, M. Kolafová, R. Vávra The Czech Academy of Sciences, Institute of Information Theory and Automation, Prague, Czech Republic

This document provides supplemental material to the short paper of Pacific Graphics 2019.

CONTENTS:

- Fig. 1 (page 2) all printed samples used in our experiments.
- Fig. 2 (page 3) rendering of captured anisotropy levels on sphere and corresponding BRDF.
- Fig. 3 (page 4) shows the rendered images of carshape used alongside sphere shape as stimuli in the Experiment 3.

1 Anisotropy by layering of 3D model



Figure 1: All printed samples used in our experiments.

2 Rendered stimuli of the tested anisotropic models

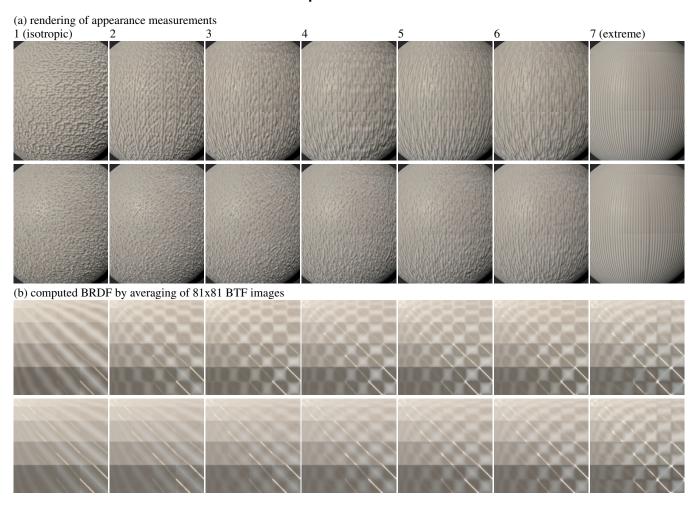


Figure 2: Printed anisotropic effects A and B: (a) rendering of appearance measurements (top-left illumination direction), (b) BRDFs obtained as average of BTFs images.

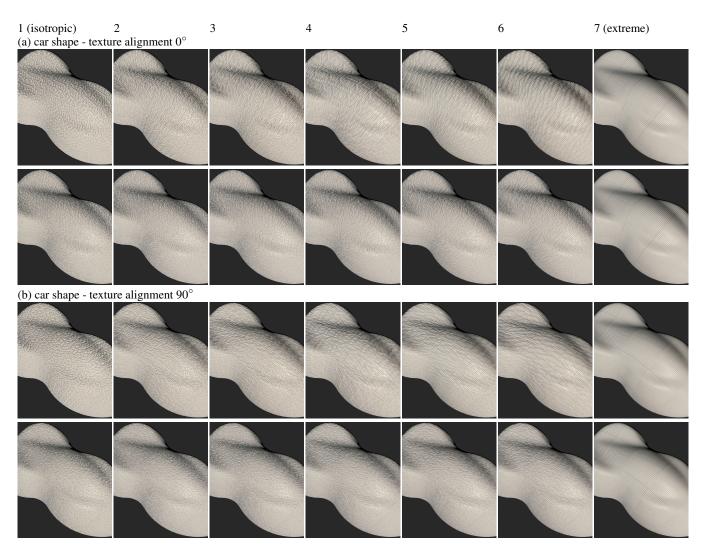


Figure 3: Rendered anisotropic effects A (the first and third rows) and B (the second the forth rows): (a) car shape - texture alignment 0° , (b) car shape - texture alignment 90° .