

Efficient Shadow Anti-Aliasing Techniques using Silhouette Revectorization

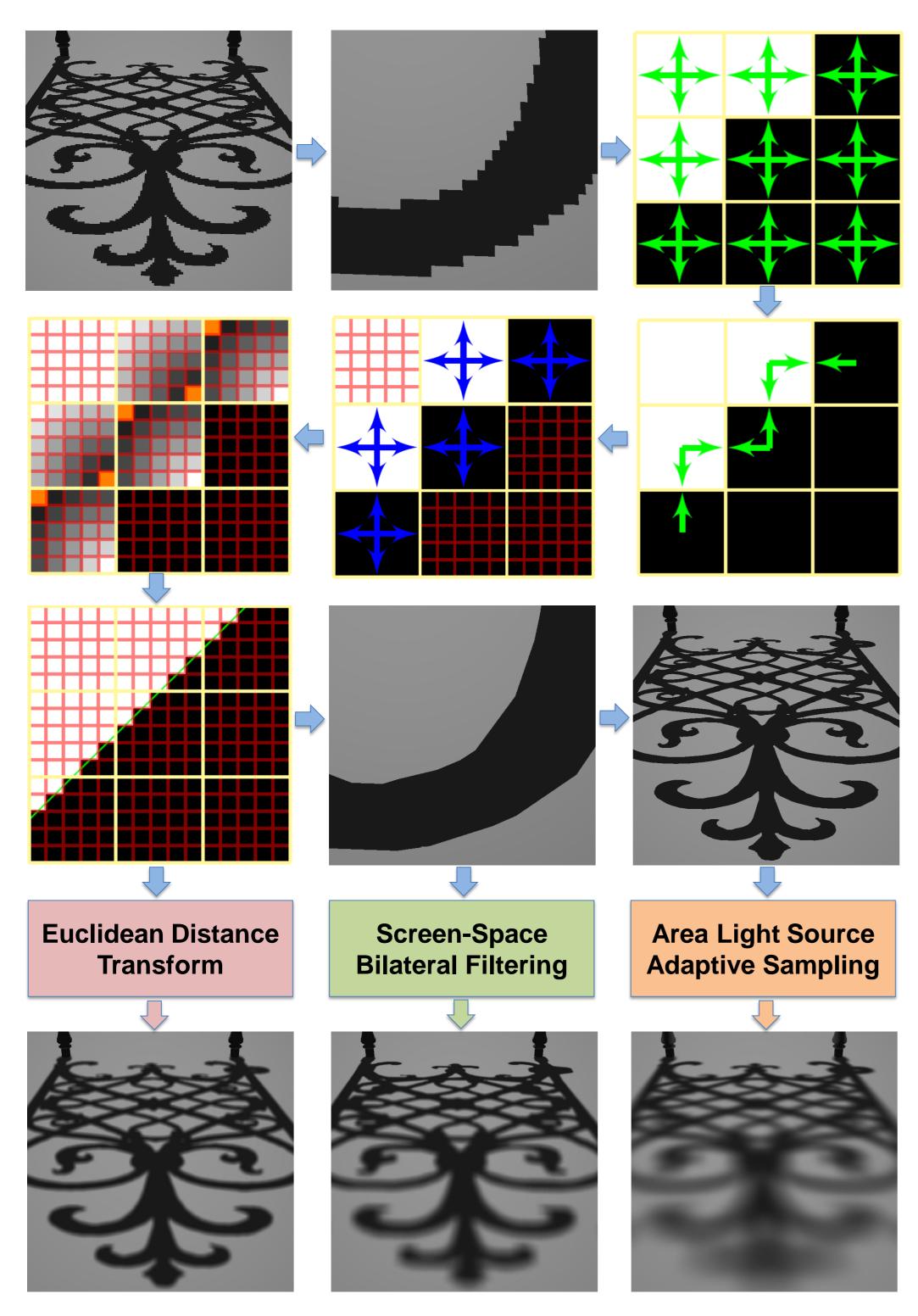
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I. Introduction

In this thesis' work¹, we propose a set of real-time techniques that use the concept of shadow revectorization to minimize aliasing and light leaking artifacts commonly produced by related work and found in hard (umbra) and soft (penumbra) shadows.

II. Shadow Silhouette Revectorization



Publications

- [1] **M. Macedo** and A. Apolinário. "Revectorization-Based Shadow Mapping". *In Graphics Interface*, 2016, pp. 75-83;
- [2] **M. Macedo** and A. Apolinário. "Euclidean Distance Transform Shadow Mapping". *In Graphics Interface*, 2017, pp. 171-180;
- [3] **M. Macedo** and A. Apolinário. "Revectorization-Based Accurate Soft Shadow using Adaptive Area Light Source Sampling". *In Graphics Interface*, 2017, pp. 181-189;
- [4] **M. Macedo** and A. Apolinário. "Euclidean Distance Transform Soft Shadow Mapping". *In SIBGRAPI*, 2017, pp. 238-245;
- [5] **M. Macedo**, A. Teixeira, A. Apolinário and K. Agüero. "Hard Shadow Anti-Aliasing for Spot Lights in a Game Engine". *In SBGAMES*, 2017, pp. 106-115;
- [6] **M. Macedo** and A. Apolinário. "Improved Anti-Aliasing for Euclidean Distance Transform Shadow Mapping". *Computers & Graphics*, vol. 71, 2018, pp. 166-179;

¹ Ph. D. work conducted between March 2015 and May 2018

III. Results

