

Advancing Front Mapping

MARCO LIVESU, CNR IMATI, Italy

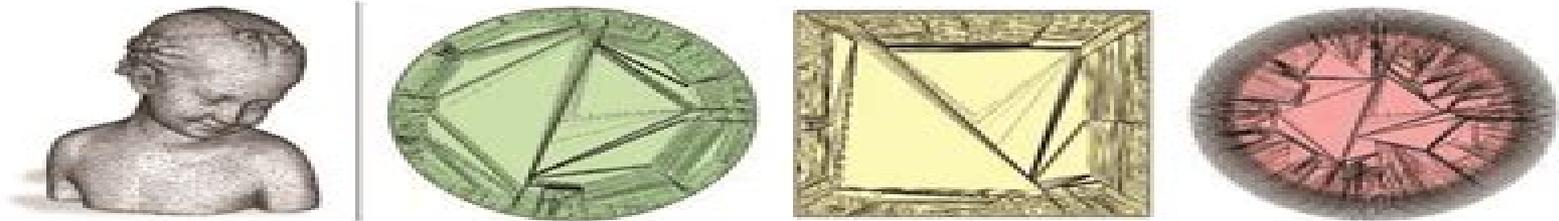


Fig. 1. Given an input mesh with the topology of a disk (left), the Advancing Front Mapping algorithm allows to flatten it to a strictly convex (green), convex (yellow) or star-shaped (red) domain. All mappings are guaranteed to be free from degenerate or inverted elements, thus being injective.

We present Advancing Front Mapping (AFM), a provably robust algorithm for the computation of surface mappings to simple base domains. Given an input mesh and a convex or star-shaped target domain, AFM installs a (possibly refined) version of the input connectivity into the target shape, generating a piece-wise linear mapping between them. The algorithm is inspired by the advancing front meshing paradigm, which is revisited to operate on two embeddings at once, thus becoming a tool for compatible mesh generation. AFM extends the capabilities of existing robust approaches, such as Tarte or Progressive Embedding, by providing the same theoretical guarantees of injectivity and at the same time introducing two key advantages: support for a broader set of target domains (star-shaped polygons) and local mesh refinement, which is used to automatically open the space of solutions in case a valid mapping to the target domain does not exist. AFM relies solely on two topological operators (triangle split and flip) and on the computation of segment intersections, thus permitting to compute provably injective mappings without solving any numerical problem. This makes the algorithm predictable and easy to implement, debug and deploy. We validated the capabilities of AFM by testing it on 34K input cases, showing that its theoretical guarantees nicely transition to a robust and practical implementation.

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1 INTRODUCTION

Surface mappings are arguably one of the most widely studied topics in computer graphics and are at the core of many fundamental

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techniques in the field [Floater and Hormann 2005; Fu et al. 2021; Hormann et al. 2008; Naïsat et al. 2021].

In this article we focus on the specific task of mapping a given triangle mesh to a convex or star-shaped domain with fixed boundary. While mappings of this kind are seldom directly useful for downstream applications due to the high geometric distortion they contain (Figure 1), methods for the robust solution of this problem are internally used in many higher level pipelines, which employ this construction to create valid initial maps that are then subsequently improved based on the needs of the application at hand. Various representative examples of this strategy can be found in the literature, spanning from the robust computation of correspondences between shapes [Kraevoy and Sheffer 2004; Schreiner et al. 2004; Shen et al. 2019], to morphing [Frazee et al. 2001] and the generation of low-distortion planar maps for uv mapping, remeshing, and other applications [Ferguson and Weber 2022; Kraevoy et al. 2003; Lee et al. 1998; Liu et al. 2018; Livesu 2023; Rabinovich et al. 2017; Shen et al. 2019; Smith and Schaefer 2015].

For a surface map to be practically useful, it is required that no triangle becomes degenerate or inverts its orientation through the map. In other words, mappings must be *injective*. This is a hard property to fulfill. Most of the existing methods achieve a good practical robustness and can perform well in most of the cases, but may unexpectedly fail to produce an injective map. Very few methods can be regarded as being *unconditionally robust*, meaning that they provide strict theoretical guarantees of injectivity (Section 2).

In this article we introduce a novel methodology for the computation of provably injective mappings to a fixed domain, called Advancing Front Mapping. AFM takes inspiration from advancing front mesh generation, which is a meshing strategy that starts from the boundary of a target domain and proceeds inwards, inserting new mesh elements until the whole domain is filled [George and Severs 1994]. Our main contribution is an adaptation of this idea to the context of surface map generation, where two fronts are

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The Advancing Front of Medicine George William Gray,1941 *The Advancing Front of Medicine* George William GRAY (Writer on Science.),1941 **The Advancing Front of Medicine** George William Gray,1941 The Advancing Front of Medicine, by George W. Gray George William Gray,1941 **Advanced Algorithmic Approaches to Medical Image**

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