

Popup: Automatic Paper Architectures from 3D Models

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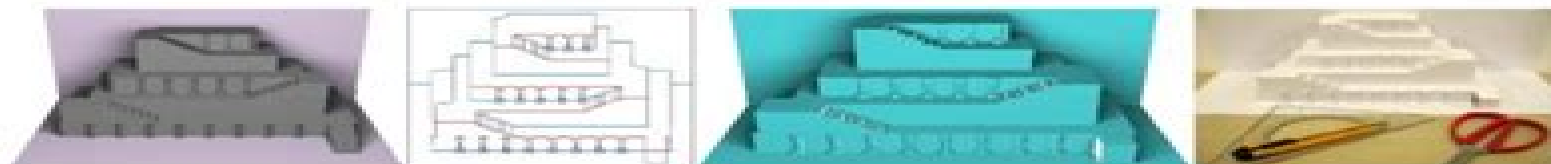


Figure 1: Given a 3D architectural model with user-specified backdrop and ground (left), our algorithm automatically creates a paper architecture approximating the model (mid-right, with the planar layout in mid-left), which can be physically engineered and popped-up (right).

Abstract

Paper architectures are 3D paper buildings created by folding and cutting. The creation process of paper architecture is often labor-intensive and highly skill-demanding, even with the aid of existing computer-aided design tools. We propose an automatic algorithm for generating paper architectures given a user-specified 3D model. The algorithm is grounded on geometric formulation of planar layout for paper architectures that can be popped-up in a rigid and stable manner, and sufficient conditions for a 3D surface to be popped-up from such a planar layout. Based on these conditions, our algorithm computes a class of paper architectures containing two sets of parallel patches that approximate the input geometry while guaranteed to be physically realizable. The method is demonstrated on a number of architectural examples, and physically engineered results are presented.

CR Categories: I.3.5 [Computer Graphics]: Computational Geometry and Object Modeling—Geometric algorithms, languages, and systems;

Keywords: paper architecture, pop-up, computer art, planar layout

1 Introduction

Paper architectures, also called *origami architectures*, are paper buildings created by folding combined with paper cutting. Originated in Japan by Masahiro Chatani [1987] in the 1980's, the craft has been popularized by artists around the world, in particular Bianchini, Siliakus and Ayta [2009]. Paper architecture appears in many forms, such as greeting cards and desktop decorations, and

can be “stunning realistic” [Chatani et al. 1987]. Some examples created by artists are shown in Figure 2. Further exhibits could be found from the online galleries of Ingrid Siliakus and Gerry Stormer.

A paper architecture is made from cutting and folding from a single piece of paper, and is stored by folding the two halves of the paper close. As the paper is opened, the 3D building “stands-up” or “pops-up”. While similar to pop-up books, a paper architecture is made with no gluing or splicing, which puts additional constraints to the design of cut and fold patterns on the paper (called a *planar layout*). What is even more challenging is to create layouts that would pop-up into a desired 3D look. Numerous books exist on the mechanism of designing pop-up crafts [Birmingham 1997; Carter 1999; Cheong et al. 2009], and a number of computer-aided tools have been developed to provide virtual design environments [Lee et al. 1996; Glassner 2002; Hendrix and Eisenberg 2006; Mitani and Suzuki 2004a]. However, the user is ultimately responsible for deciding where and how the cuts and folds should be placed on the 2D paper, and it remains a labor-intensive and highly skill-demanding task to generate 2D layouts that pop-up into realistically looking 3D buildings.

In this paper, we develop a completely automatic algorithm that produces paper architectures approximating user-given 3D models, which enables novice users to create realistic and complex crafts in an effortless way (see the example on Figure 1 right). Our algorithm is grounded on novel geometric formulations of planar layouts that can physically pop-up to paper architectures. In particular, regions in the layout should maintain rigid and non-intersecting when popping-up, and the architecture should be able to stably erect with no additional help from the user other than holding the two halves of the paper. Based on the formulation, we present sufficient conditions for a class of 3D surfaces, consisting of planar patches oriented in two directions, to be physically realizable by popping-up a planar layout. Guided by the conditions, we design a grid-based algorithm that produces 3D realizable paper architectures automatically from any input model given by the user, while requiring only the users to specify the paper location with respect to the model. An example is shown in figure 1.

Contributions To the best of our knowledge, our algorithm is one of the first automated methods for creating paper architecture that mimics a given 3D input. To achieve this goal, we make the following contributions:

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Pop-Up Geometry Joseph O'Rourke, 2022-03-24 Anyone browsing at the stationery store will see an incredible array of pop up cards available for any occasion The workings of pop up cards and pop up books can be remarkably intricate Behind such designs lies beautiful geometry involving the intersection of circles cones and spheres the movements of linkages and other constructions The geometry can be modelled by algebraic equations whose solutions explain the dynamics For example several pop up motions rely on the intersection of three spheres a computation made every second for GPS location Connecting the motions of the card structures with the algebra and geometry reveals abstract mathematics performing tangible calculations Beginning with the nephroid in the 19th century the mathematics of pop up design is now at the frontiers of rigid origami and algorithmic computational complexity All topics are accessible to those familiar with high school mathematics no calculus required Explanations are supplemented by 140 figures and 20 animations **Issues in**

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Malaka, Susanne Boll, Antonio Krüger, Patrick Olivier, 2011-07-06 This book constitutes the refereed proceedings of the 11th International Symposium on Smart Graphics SG 2011 held in Bremen Germany in July 2011 The 10 revised full papers presented together with 12 short papers and 4 systems demonstrations were carefully reviewed and selected from numerous submissions covering a wide range of topics including view and camera control three dimensional modeling visual

information encoding video projection information visualization interaction techniques visual communication and graphics and audio Perspectives in Shape Analysis Michael Breuß, Alfred Bruckstein, Petros Maragos, Stefanie Wuhrer, 2016-09-30

This book presents recent advances in the field of shape analysis Written by experts in the fields of continuous scale shape analysis discrete shape analysis and sparsity and numerical computing who hail from different communities it provides a unique view of the topic from a broad range of perspectives Over the last decade it has become increasingly affordable to digitize shape information at high resolution Yet analyzing and processing this data remains challenging because of the large amount of data involved and because modern applications such as human computer interaction require real time processing Meeting these challenges requires interdisciplinary approaches that combine concepts from a variety of research areas including numerical computing differential geometry deformable shape modeling sparse data representation and machine learning On the algorithmic side many shape analysis tasks are modeled using partial differential equations which can be solved using tools from the field of numerical computing The fields of differential geometry and deformable shape modeling have recently begun to influence shape analysis methods Furthermore tools from the field of sparse representations which aim to describe input data using a compressible representation with respect to a set of carefully selected basic elements have the potential to significantly reduce the amount of data that needs to be processed in shape analysis tasks The related field of machine learning offers similar potential The goal of the Dagstuhl Seminar on New Perspectives in Shape Analysis held in February 2014 was to address these challenges with the help of the latest tools related to geometric algorithmic and numerical concepts and to bring together researchers at the forefront of shape analysis who can work together to identify open problems and novel solutions The book resulting from this seminar will appeal to researchers in the field of shape analysis image and vision from those who want to become more familiar with the field to experts interested in learning about the latest advances Entertainment Computing - ICEC 2017 Nagisa Munekata, Itsuki Kunita, Junichi Hoshino, 2017-08-23

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Tsotsos, 2008-05-09 In the past few years with the advances in microelectronics and digital technology cameras became a widespread media This along with the enduring increase in computing power boosted the development of computer vision systems The International Conference on Computer Vision Systems ICVS covers the advances in this area This is to say that ICVS is not and should not be yet another computer vision conference The field of computer vision is fully covered by many well established and famous conferences and ICVS differs from these by covering the systems point of view ICVS 2008 was the 6th International Conference dedicated to advanced research on computer vision systems The conference continuing a series of successful events in Las Palmas Vancouver Graz New York and Bielefeld in 2008 was held on Santorini In all 128 papers entered the review process and each was reviewed by three independent reviewers using the double blind review method Of these 53 papers were accepted 23 as oral and 30 as poster presentation There were also two invited talks by P. Anandan and by Heinrich H. Bulthoff The presented papers cover all aspects of computer vision systems namely cognitive vision monitoring and surveillance computer vision architectures calibration and registration object recognition and tracking learning human machine interaction and cross modal systems

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