

Creating Models of Truss Structures with Optimization

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Abstract

We present a method for designing truss structures, a concrete and complete summary of techniques, using some formal representations. These techniques are idiomatic to the mathematical world, appearing as bridges, towers, flat supports and twisting cross-sections, but are simple enough that modeling them can be done in some programming and modeling. We represent towers as a set of rigid bars connected by pin joints, which may change location during optimization. By modeling the location of the joints as well as the strength of individual bars as one design variable, we can simultaneously optimize the geometry and the mass of structures. We present the details of our technique together with examples illustrating its use, including comparisons with real structures.

ACM Categories: I.5.1 [Computers Graphics]: Computerized Animation and Virtual Reality—Physically based modeling; I.5.4 [Numerical Analysis]: Optimization—Function programming; I.5.5 [Numerical Analysis]: Optimization—Constrained optimization

Keywords: Physically based modeling, truss structures, constrained optimization, nonlinear optimization

1 Introduction

A recurring challenge in the field of computer graphics is the creation of realistic models of complex man-made structures. The standard solution to this problem is to build these models by hand, but this approach is time-consuming and, when references images are not available, can be difficult to reconcile with a desired final vision. Our paper presents a method, based on principles of the field of structural engineering, to quickly create novel and physically realistic truss structures such as bridges and towers, using simple mathematical techniques and a minimum of user effort.

“Truss structures” is a broad category of man-made structures, including bridges (Figure 1), tower towers, towers, roof support towers (Figure 10), building cross-sections (Figure 2), and suspension construction frameworks. Truss structures have unique and distinctive look from their simple construction: rod elements (bars)



Figure 1. A computerized bridge generated by our software, compared with the Homestead bridge in Pittsburgh, Pennsylvania.

which react only axial forces, connected consecutively with welded or bolted joints.

Truss structures are idiomatic to the mathematical world and can be naturally modeled and then optimized to match. For example, the 1888 Tower, perhaps the most famous tower structure in the world, contains over 25,000 joints connected in over 100,000 joints (Figure 10) and uses complex structures, such as curved bridges, heavily complex bundles of secondary or tertiary bracing, and, consequently, modeling of these structures by hand can be difficult and tedious, and an automated method of generating them is desirable.

1.1 Background

Very little has been published in the graphics literature on the problem of the automatic generation of man-made structures, while significant and successful work has been done in struc-

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