

ADAPTIVE STRUCTURES – SOFT MECHANICAL APPROACH

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ABSTRACT

Since their earliest conceptualization, structures with reconfigurable characteristics contributed to the emergence of an architecture, able to respond and adjust itself to shifting environmental conditions, or time dependent users' needs. In this respect, the development of tensegrity and scissor-like structures to obtain adaptive capabilities, is primarily based on articulated joints and embedded mechanical actuators, following a hard mechanical approach. Although these systems are usually designed to use a small number of components to achieve maximum shape adjustments, their implementation often causes an increase of unsustainable processes with regard to the number and characteristics of the actuators used and mechanisms complexity, as well as energy-inefficient processes, in terms of both construction and kinetic operation. An alternative soft approach for adaptive structures is proposed in the current paper through an implementation of hybrid cable bending-active members, while the latter replaces multiple local hinges through reversible elastic bending deformations. Through the cables own length modification, these are responsible for the structure deformability and sufficient prestressing of the primary elastic members. Such pliable structures increase the level of design complexity due to the inherent elastic properties of the materials used and their nonlinear structural behaviour during transformation. In demonstrating this, a series of single, coupled and coupled-interconnected cable bending-active system configurations are investigated. Results obtained describe the stress distribution between the structural components during the systems' form-finding process and load-bearing behaviour.

Keywords: adaptive structures, cable bending-active structures, finite-element analysis, form-finding, soft mechanical approach.

1 INTRODUCTION

The necessity for overcoming static, heavyweight and energy inefficient building components, triggered the conceptualization and the evolution of adaptive systems [1]. Chronologically, the development of kinetic structures, primarily in terms of deployable tensegrity and scissor-like systems has been influenced by architectural form requirements, aesthetic factors, structural optimisation criteria, performance capacity and economy [2, 3]. So far, such systems are mainly based on kinetic mechanisms followed by hard mechanical approaches, while taking into consideration aspects of self-weight minimisation, modularity, connectivity and constructability [4]. While both aforementioned systems do not provide extensive flexibility, since their motions are limited between a closed and open state, reconfigurable systems have been acknowledged for their enhanced adaptive behaviour in terms of their physical ability to reconfigure themselves in various modular geometries and overall morphologies [5]. In many cases, the use of embedded computation and actuators enables real-time kinetic adaptation and structural control, resulting in unique adaptive responses [6]. Although current developments and implemented examples that attain the above attributes have verified their ability to adapt and support adequate morphological alterations, these are often characterized as complex and energy inefficient [7].

In extent, recent research activities focus on applications of soft, pliable materials, characterised by their passive elastic properties [8]. The alternative soft mechanical approach is based on implementation of elastically deformable members that may vary in shape and assemblage [9]. In principle, elastic deformation acting on primary elastic members can

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