

ASSOCIAÇÃO DOS PROFESSORES DE DESENHO E GEOMETRIA DESCRITIVA Escola Artística Soares dos Reis. Rua Major David Magno 139 4000-191 PORTO





ISCTE - INSTITUTO UNIVERSITÁRIO DE LISBOA Edifício II - Auditório B203 Av.ª das Forças Armadas 1649-026 LISBOA

SESSION 2 - ADVANCED RESEARCH AND DIGITAL TOOLS 17 . 05 . 2014

## GEOMETRY OF KINETIC FOLDED SURFACES Filipa C. Osório

## **ABSTRACT**

This paper aims to present the ancient art that is Origami, its origins and its intrinsic geometry in order to demystify the idea that Origami is a children's hobby and demonstrate that it is something quite complex and can bring answers in a variety of contexts. In this article we will frame Origami's historical context, we will define the various types of Origami and explain their geometric rules. We will focus especially on the possibilities of using Rigid Origami folded surfaces in architecture and in kinetic situations.