



SESSION 1 - RESEARCH AND GEOMETRY  
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**FREEFORM SURFACES ADAPTATION  
USING DEVELOPABLE SURFACES**

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**ABSTRACT**

The foundation of a double curvature surfaces construction method is presented in this paper. This approach is carried out by adapting these double curvature and freeform surfaces using planar and developable surfaces.

In the context of the architectural design, building freeform surfaces raises many technical and economical problems. The process prosecutes the simplification of the systems of manufacture and therefore its economic repercussion. Certainly Architecture has seen in recent years an extensive use of freeform surfaces. A significant researching way not only in architecture, but also in engineering even in sculpture, has been the adaptation of these free forms through developable surfaces using different approaching systems.

Reinterpreting some issues taking from projective geometry, allowed by the use of certain CAD software, we have developed a method that enables the adaptation of free forms through developable surfaces using apparent contours as support.