

Mutual understanding between graphical and computational software

Antonio Casas ¹

At present, the use of computers allows to design new spaces in which coexist free forms, not necessarily subject to the canons of classical geometry. New ways of understanding the architectural design appear (*Parametric Architecture*). This makes more interesting still, to look for the interrelation and "*mutual understanding*" between the graphical and computational software. In particular, this communication presents a work in the which it has been designed and programmed a "*link*" between two softwares utilized extensively, each of them in its environment, but not usually together. On one hand, a parametric design software *Rhinoceros* and its plugin *Grasshopper*, and secondly, the symbolic and computational software *Maple*. Both are widely used in their usual fields (design and numerical computation respectively), but every time it is more necessary to work together.

¹Dpto. Matemática Aplicada, E.T.S. de Arquitectura, Univ. Politécnica de Madrid, Spain
e-mail: antonio.casas@upm.es