# AAD Algorithms-Aided Design. Parametric strategies using Grasshopper

*By Arturo Tedeschi*



**AAD Algorithms-Aided Design. Parametric strategies using Grasshopper** By Arturo Tedeschi

Algorithmic design is not simply the use of computer to design architecture and objects. Algorithms allow designers to overcome the limitations of traditional CAD software and 3D modelers, reaching a level of complexity and control which is beyond the human manual ability. Algorithms-Aided Design presents design methods based on the use of Grasshopper®, a visual algorithm editor tightly integrated with Rhinoceros®, the 3D modeling software by McNeel & Associates allowing users to explore accurate freeform shapes. The book provides computational techniques to develop and control complex geometries, covering parametric modeling, digital fabrication techniques, form-finding strategies, environmental analysis and structural optimization. It also features case studies and contributions by researchers and designers from world's most influential universities and leading architecture firms.

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