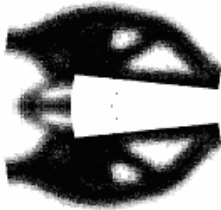


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Artificial intelligence in computer-aided design



This project involves development of new software algorithms for automatically exploring the design space. We will use a combination of numerical optimization and machine learning to come up with new designs. The figures on the left shows, for example, a compliant structure designed automatically for sustaining certain loads. We now want to find out how to extend these methods to deal with more complex structures and more complex load patterns. We will also fabricate these automatically designed structures and test them in reality. Suitable for a single student or a team of two.

http://www.mae.cornell.edu/ccsl/papers/Biomimetics05_Lipson.pdf