

Great persons and results make biomimetics incredibly inspirational

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Abstract: The concept of using ideas from nature as inspiration for innovation and technological development is in focus last decades, while the similar approach can be found in the ancient civilizations. In any kind of such progress it is important to remember the founders and pioneers and to understand their character and the circumstances that push them to go beyond existing knowledge. This is predominantly important in interdisciplinary science areas such as biomimetics. The importance of biomimetics in development of modern dynamical systems and optimal design in mechanical systems is emphasized in this paper. The authors viewpoint of future development of biomimetics as original discipline and the principles for future research is also presented in this paper. The short presentation of existing results of authors based on the application of biomimetics principles on real problems will be presented, too.

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