東京大学
THE UNIVERSITY OF TOKYO

工学系研究科専攻間横断型教育プログラム
「機械システム・イノベーション」

GMSI

最先端融合科学イノベーション
教育研究コンソーシアム

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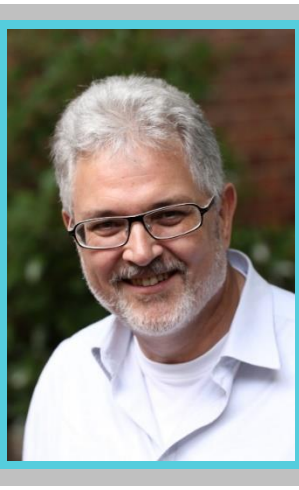
第216回GMSI公開セミナー／第40回CIAiSセミナー

Biomimtic architecture - development of bioinspired material systems in the TRR 141



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In 3.8 billion years of biological evolution nature has found answers for many engineering problems which are of increasing interest also for many aspects in bioinspired building construction. The aim of biomimetic research is to analyse and tap nature‘s huge reservoir of solutions with a high potential for the development of innovative technical products. Biological solutions are cost-efficient, multi-functional and environmentally friendly. However, the aspect of sustainability has to be tested for each biomimetic product separately. During the last decades biomimetics has attracted increasing attention as well from basic and applied research as from various fields of industry, architecture and especially from building construction. Biomimetics has a high innovation potential and offers the possibility for the development of sustainable technical products and production chains. The huge number of organisms with the specific structures and functions they have developed during evolution in adaptation to differing environments represents the basis for all biomimetic R&D-projects. This lecture will present a development of bioinspired material systems in the TRR(Transregio) 141.

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