

Engineered Biomimicry: Chapter 13. Biomimetic Self-Organization and Self-Healing

Torben Lenau, Thomas Hesselberg

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Self-organization and self-healing appeal to humans because difficult and repeated actions can be avoided through automation via bottom-up nonhierarchical processes. This is in contrast to the top-level controlled manner we normally apply as an action strategy in manufacturing and maintenance work. This chapter presents eight different self-organizing and self-healing approaches in nature and takes a look at realized and potential applications. Furthermore, the core principles for each approach are described using simplified drawings in order to make the ideas behind the self-organizing and self-healing principles more accessible to design practitioners.



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