How to identify a promising biological solution for developing an innovative technical product? To answer this question, approaches have been developed that support engineers in scanning biological texts for relevant biological analogies. However, existing approaches underutilize biological research articles as a text source, because the enormous amount of biological information contained in these articles is difficult to manage. Nevertheless, this search source is very comprehensive and represents the current state of biological research. Hence, it is worth further consideration. In this research, a search support for bio-inspired design called BIOscrabble is illustrated. It addresses the issue of extracting promising biological analogies out of huge biological text sources. Besides supporting the selection of useful search terms, it proposes different graph-based representations of the search to divide the biological information that is obtained in manageable "packages".

Stichworte:
- bio-inspired design
- managing large text sources
- graph-based
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Occurences:
· Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Produktentwicklung (Prof. Volk komm.) > Konferenzbeiträge
· Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Produktentwicklung, Konstruktionssystematik und Leichtbau (Prof. Zimmermann) > Konferenzbeiträge

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