

Function-Oriented Search, TRIZ and the Sustainable Use of Information Resources

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Abstract. Finding leading areas and industries is currently not supported within Function-Oriented search. The proposed workflow aims at a systematic approach to help finding possible leading areas together with the implementation of existing resources. This increases the sustainability because the amount of used human resources is decreased and the utilisation of present information resources is increased. Thus, the effort within development is improved which increases the efficiency. The application and value of Function-Oriented Search is simplified, and the level of subjectiveness is reduced.

The proposed workflow was tested with an example. Therefore, it should be substantiated with additional example problems in different fields of industry. Furthermore, during the work a change of the resources were perceived. This could lead to further research if those changes could be predicted. Expert systems and AI could enhance the process by automated analysis of search results or suggestions where to perform additional searches.

Keywords: Function-Oriented Search, TRIZ, Sustainability, Information, Resources.