











Integrating diverse information resources in a case-based design environment

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Abstract

The success of case-based design aids depends both on the case-based reasoning processes they apply and on effectively integrating those processes into the larger task context: on making the case-based reasoning component present case information at the right time and in the right way, on exploiting additional information resources as needed to supplement the case **library**  and to guide case application, on capturing useful information from current reasoning and providing it to up- and down-stream designers, and on unobtrusively learning new cases during the design process. This article presents a set of principles and techniques for integrated case-based design support systems and illustrates their application through a case study of the Stamping Advisor, a system to support feasibility analysis for sheet metal automotive parts.

Author Keywords: Case-based reasoning; Design; Information integration; Information retrieval; Just-in-time retrieval;  **Knowledge management** 

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Vitae

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