

Hierarchical Decision Process for Chemical Product Design

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This paper aims to propose a systematic hierarchical decision process for chemical product design. The product design is a typical decision making process. Each decision has several choices distinguished by various criteria. The decisions in product design process are combined to many alternatives by various combinations like branches. The final product is optimal choice between the alternatives. Most of the chemical product design processes include similar decision making process. The hierarchy reduces the problem in this process. Thus we propose a standard hierarchical systematic decision process. This process is verified by two case studies. The design of a support tool for medical examination and the redesign of an optical pick-up UV curable adhesive are presented as case studies.