

工程与应用

基于过程优化的供应链过程语义建模方法

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摘要 根据供应链过程的特点, 将MIT过程手册中提出的语法模型同企业流程再造中常用的动态供应链建模方法相结合, 以过程优化与流程再造为目标, 提出了一种供应链过程语义建模方法。此方法可直接应用于供应链过程优化仿真系统的过程描述。将此建模方法应用到汽车行业供应链过程的描述与优化中, 结果表明, 此方法能够有效地描述汽车行业供应链过程, 同EPC方法相比较, 此方法更能充分展示资源与供应链过程的有效配置, 从而更易于进行供应链过程优化与流程再造。同时, 运用此建模方法构建的供应链过程模型能清晰地描述出供应链中的物流、资金流和信息流, 因此能够更有针对性地对供应链上的资源进行有效管理。

关键词 [供应链过程](#) [语义建模方法](#) [过程优化](#) [EPC模型](#)

分类号

Supply Chain Process (SCP) semantic modeling approach for process optimization

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Abstract

A modeling method of Supply Chain Process (SCP) is proposed for SCP optimization. This modeling method combines semantic modeling approach and some dynamic business modeling method. It makes it easy to analyze the as-is SCP model and redesign the SCP model. This modeling method was applied to a SCP of auto industry. The result shows that SCP of auto industry can be modeled effectively for SCP optimization using our method. Compared to EPC model, this modeling method can define the configuration of resource and process in more detail. Therefore, this modeling method is more fitting to model SCP for process optimization than EPC model. In addition, this method can depict clearly the flow of material, finance and information in supply chain. Thus, the resource in global supply chain can be tracked and managed effectively.

Key words [supply chain process](#) [semantic modeling approach](#) [process optimization](#) [EPC model](#)

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