博士论坛

OOPN-SOA架构下全球供应链业务优化研究

肖 伟[1,2], 赖明勇[1,2]

1.湖南大学 工商管理学院，长沙 410079
2.湖南大学 经济与贸易学院，长沙 410079

摘要　以全球供应链为研究对象，讨论全球供应链业务优化问题，区别于以往以博弈论工具为主求解全局优化的方法，提出基于对象Petri net建模方法，给出建模步骤和模型活性检验算法。根据OPN工具的输入输出特性，设计基于SOA的服务进化策略实施步骤。案例检验采用宁晋地区电缆产业数据，该方法提出改善国际消费者金融服务和国内生产者金融服务两个建议，证明了方法的有效性。
关键词　全球供应链　Petri net　面向对象（OO）　面向服务的体系结构（SOA）
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Approach of workflow optimization of global supply chain based on OOPN-SOA framework

XIAO Wei[1,2],LAI Ming-yong[1,2]

1.Department of Business and Administrator，Hunan University，Changsha 410079，China
2.Department of Trade and Economic，Hunan University，Changsha 410079，China

Abstract

　This paper discusses the workflow optimization of global supply chain，different from the past study on game theory.the object oriented Petri net is set up to model the global supply chain，and the modeling steps and activity test algorithm are given.Based on the I/O of OPN tool，the service evolution strategy is designed by using SOA framework.The case test uses the data from Ning-Jing area.The method gives suggestion that the cable manufacturers should improve the international consumer financial services and domestic producers of financial services.The suggestion show that the method is effective.

Key words　global supply chain　Petri net　Object-Oriented（OO）　Service-Oriented Architecture（SOA）

通讯作者 肖 伟 xiaowei19800924@163.com