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Decentralized Establishment of Consistent, Multilateral Collaborations

A formal model and its application
in the Web Service domain



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Service Oriented Architecture (SOA) support decentralized and loosely coupled applications. In particular, parties make functionality obtainable as something, which is preserved and managed independent of a centralized coordinator.e. Further, loose coupling helps late binding of solutions, i. In this book a formal workflow model for checking bilateral regularity in a composed collaboration is presented. Because of these decentralized decisions and having less a centralized coordinator, a decentralized decision has to be made whether the composed collaboration will achieve success, thus will never be deadlocked., something requestor may decide at run-time which service provider to make use of for that particular collaboration. This approach is extended to multi-lateral consistency looking at without centralized coordination. Further, the strategy is evaluated by applying the workflow model in the net Service domain.



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