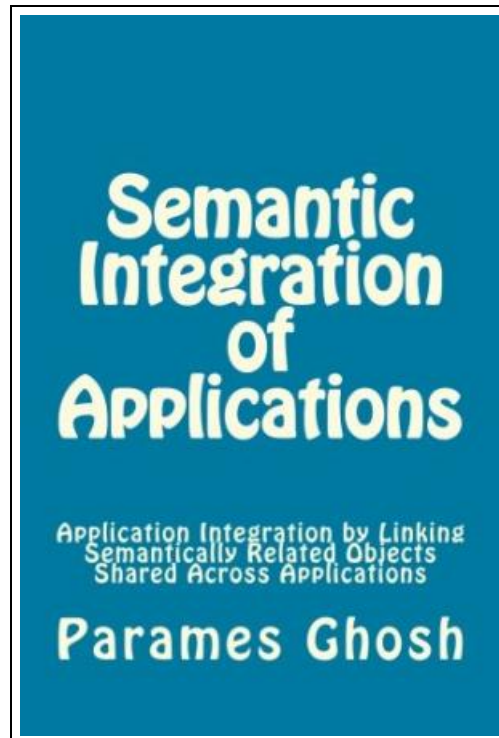# Semantic Integration of Applications: Application Integration by Linking Semantically Related Objects Shared Across Applications (Paperback)

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Reviews

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SEMANTIC INTEGRATION OF APPLICATIONS: APPLICATION INTEGRATION BY LINKING SEMANTICALLY RELATED OBJECTS SHARED ACROSS APPLICATIONS (PAPERBACK)

Createspace Independent Publishing Platform, 2016. Paperback. Condition: New. Large Print. Language: English . Brand New Book ***** Print on Demand *****. Application integration, addressed in this thesis, is no longer an organisational issue, but a global problem. Organisational boundaries are often redefined with mergers/acquisitions. Customers require services that cannot be provided by a single organisation. Applications from one organisation often need to interact with applications of other organisations; they need to package services that are supplied by other organisations. Organisations can no longer work in isolation. Increase in the need for interoperability of applications has been matched by the increase in the speed and quality of communication. Organisations are now highly interconnected and have access to many information sources, but they still have problems in identifying what data from other organisations are relevant or meaningful to them. In this thesis, we have shown how to link relevant data across applications and model their relationships in the integrating application. A computer application represents real world objects that are relevant to it; again from these objects it selects only the relevant attributes. The same real world object may be modelled in many applications, but different sets of attributes are represented in those applications, because data models support different constructs, designers have different perceptions, or the contexts of the application explain unspecified details. When the real world object represented by one application object is same as the real world object represented by another application object, these application objects are semantically equivalent. When the real world counterparts are related, the application objects are semantically related. We have proposed to link semantically related objects of two or more applications in spite of their schematic differences, and model these objects for an integrating application in terms of the semantic relationships of their real world counterparts. We...

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