

An Indian-Australian research partnership

Project Title:

Project Number

Monash Supervisor(s) *Full names and titles*

Monash Primary Contact: *Email, phone*

IITB Supervisor(s) *Full names and titles*

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Research Academy Themes:

Highlight which of the Academy's Theme(s) this project will address? 1.

(Feel free to nominate more than one. For more information, see www.iitbmonash.org)

1. **Advanced computational engineering, simulation and manufacture**

The research problem

Define the problem

Tight coupling has been the bane of most enterprise systems. SOA promises to address this issue by offering a programming model that promotes loose coupling and dynamic binding. But to date this promise is yet to be realized and the web services model offers little improvement over the older paradigms of J2EE and .NET. We aim to explore a programming model (and the corresponding runtime infrastructure) of loose coupling that we term variability oriented programming within a context of services. The problem is to build the necessary theoretical framework for the concept of variability points in SOA and add the appropriate language extensions and runtime support to realize this.

Project aims

Define the aims of the project

The goal of the project is to realize the promise of loose coupling in service-oriented architectures. .