

Services Computing Contest Problem

Services industries account for 55% economic activities according to the recent US Census. Services Computing, as an emerging cross-discipline, covers the science and technology of leveraging computing and information technology to model, create, operate, and manage business services. Service-Oriented Architecture (SOA) is one of the core enabling technologies of the Services Computing. It is a novel design methodology and architecture aimed at maximizing the reuse of application-neutral services. It enables services abstraction from implementation and functional standardization through service modeling and aggregation. Therefore it enhances business services adaptability, efficiency and agility.

At the same time, services industries have faced many challenges in exploiting SOA. For example, most of the existing solutions were create in an ad-hoc manner. Formal models and methods are needed to create SOA solutions in a systematic manner.

In this contest, each team needs to (1) select and identify one specific solution area, for example, Internet services, aerospace, automotive, electronics, finance, smart home, or cross-industry solutions like ERP (Enterprise Resource Planning), SCM (Supply Chain Management), CRM (Customer Relationship Management), payment management, purchasing management, etc.; (2) analyze business problems in your selected solution area; (3) design and build a prototype based on SOA. You should clearly explain how your SOA solution solves these challenging problems in your selected area. You should create a business model to illustrate the value of your SOA solution.

You should submit a complete contest report that includes the following items: problem background, modeling analysis, technical explanation, result analysis, SOA methodology, innovation and a web site that hosts a live demonstration. It should be limited to 8 pages and follows the IEEE Computer Society Press Proceedings Author Guidelines.

The dead line of the contest paper is April 7, 2007.

The contest will be judged by the problem domain analysis, solution innovatory, uniqueness, value proposition, and SOA architectures.