

# VINCA – A Visual and Personalized Business-level Composition Language for Chaining Web-based Services

Yanbo Han<sup>1</sup>, Hui Geng<sup>1</sup>, Houfu Li<sup>1</sup>, Jinhua Xiong<sup>1</sup>, Gang Li<sup>1</sup> Bernhard Holtkamp<sup>2</sup>,  
Rüdiger Gartmann<sup>2</sup>, Roland Wagner<sup>2</sup>, Norbert Weissenberg<sup>2</sup>

<sup>1</sup>Institute of Computing Technology, Chinese Academy of Sciences, 100080, Beijing, China

<sup>2</sup>Fraunhofer Institute for Software and Systems Engineering, 44227, Dortmund, Germany

{yhan,genghui,lhfsday,xjh,gangli}@software.ict.ac.cn

**Abstract** The paper presents a service composition language called VINCA, which differs from many existing ones in its emphasis on enabling business users to visually “program” from business view-point their personalized applications on the basis of Web-based services. VINCA embodies an integrated approach to mediating between diverse, rapidly changing user requirements and composites of individual services scattered over the Internet. The approach is targeted at application scenarios that require Web-based services be quickly assembled by non-computer professionals to fulfill certain spontaneous requirements. VINCA is developed within a real-world project for developing a service mediation platform for the Olympic Games Beijing 2008, on which an effective information system providing personalized and one-stop information services to the general public, should be based. In this paper, we introduce the main features and design rationales of VINCA with a scenario, and also discuss its implementation and application.