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A Service Composition Process for Generation Personalized Learning Processes

Najlaa Zniber
Université de Paul Cézanne (France)
znajlaa@gmail.com

Abstract

Most of the research on educational system engineering is content-centric. It focused rather on the design and the management of the e-learning material than the educational processes. Hence, the pedagogical components are "static" resources that learners access in a pragmatic or predefined way. The use of web technologies in the jobs of training leads to the emergence of new learning approaches. The success of these approaches depends on their capacity to be provided with courses adapted to learners' intention and learners' profiles. The aim of this research work is to propose a service-oriented approach; pedagogic services provide learning process chunks to satisfy pedagogic objectives. The POPS approach (Process-Oriented Pedagogic Service) is a conceptual framework which provides both a service model for pedagogical service design and a service composition process for generating personalized learning processes. We use dynamic composition of services for generating personalized courses that will satisfy learner's intentions and profiles. This dynamic composition is the construction process includes research, selection, adaptation and composition and is based on the semantic description of services and ontologies. This process is implemented at the moment when we try to satisfy the learner's intention. The principle of discovery and dynamic composition that generate personalized courses that match with a particular goal formulated by the learner.