

Presentation of the paper “A metamodel proposal for developing learning ecosystems” in HCII 2017

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Abstract

This is the presentation of the paper entitled “A metamodel proposal for developing learning ecosystems” in the Emerging interactive systems for education session at the HCI International 2017 Conference, held in Vancouver, Canada, 9 - 14 July 2017.

The definition and development of learning ecosystems is a complex process with a wide range of requirements. Although two different institutions or companies share the same problems and goals regarding their learning and training processes, the learning ecosystems to support them are different. The components of the ecosystem, including the human factor as a key element, and the relationships between them, change over time. In other words, learning ecosystems evolve as natural ecosystems; there are many factors, both internal and external, that influence an entity. The authors have defined and developed different learning ecosystems. Moreover, they have transferred the same learning ecosystem, specifically a learning eco-system for knowledge management in a PhD Program, to different domains. These experiences have provided the required information to define the ecosystems metamodel following the Model Driven Architecture proposed by the Object Management Group. The aim of this metamodel is define a Domain Specification Language to develop learning ecosystems.

Keywords

learning ecosystems; metamodel; MOF; Model-Driven Architecture; information systems

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