Third International Workshop on Active Conceptual Modeling of Learning (ACM-L 2010)

Preface

The ACM-L 2010 workshop aims to bring together researchers, developers, and users to exchange ideas about different approaches for modeling concepts and more complicated conceptual constructs to describe the past, current and future world (or parts of them), modeling continuous learning from past experiences, capturing knowledge from transitions between system states, and recognizing new types of knowledge. A need for active conceptual modeling for information systems rises from several sources: active modeling, emergency management, learning from surprises, data provenance, modification of the events/conditions/actions as the system evolves, actively evolving conceptual models, schema changes in conceptual models, historical information in conceptual models, ontological modeling in domain-aware systems, spatio-temporal and multi-representation modeling, etc. All these approaches may appear together.

The most important needs are perhaps emergency management and learning from surprises, because they often appear in big disasters and catastrophes, as in a tsunami, earthquake or eruption of a volcano. In these kinds of situations, information systems must collect large amounts of raw data, analyze it, conceptualize it, map it to the domain, distribute it, make conclusions, make plans for new activities, and manage cooperation of active officials. The long-term goal is to provide a theoretical framework for active conceptual modeling of learning – based on multi-level, multi-dimension, multi-perspective knowledge and human cognition – for developing a learning-base system to support cognitive services/capability development and a large class of applications. The workshop will also discuss short- and long-term research goals for ACM-L development, identify use cases, and explore research areas beyond ACM-L.

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Hannu Kangassalo
Sal March
Leah Wong