

Knowledge Development Taxonomy and Application Scenarios

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Abstract

Knowledge development in an enterprise is about approaches, methods, techniques and tools that will support the advancement of individual and organizational knowledge for the purpose of an improvement of businesses. A modeling basis for knowledge development is provided with a new conception of knowledge and of knowledge conversions, which introduces three dimensions of knowledge and general conversions between knowledge assets. This modeling basis guides the definition of a taxonomy of knowledge development scenarios. In this taxonomy, constructive and analytic scenarios are distinguished as main categories and subsequently refined into more specific ones. In order to indicate the usefulness of this taxonomy, example implementations of two knowledge development scenarios are briefly outlined: a modeling notation for knowledge-intensive business processes as a constructive scenario and a rule-processing system based on a knowledge ontology as an analytic scenario.

Keywords: Knowledge development, taxonomy of knowledge development scenarios

Biography



Prof. Dr. Eckhard Ammann is a professor for computer science at the Reutlingen University, Germany, since 1992. Before that, he spent 8 years with the IBM company doing research and development in parallel systems and system structures. His research interests include knowledge management, intellectual capital, business process modeling, distributed systems, and virtual organisations.