



*Change Patterns and Change Support Features in
Process-Aware Information Systems*

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ABSTRACT

In today's dynamic business environment the economic success of an enterprise increasingly depends on its ability to react to changes in its environment in a quick and flexible way. Process-aware information systems (PAIS) offer promising perspectives in this respect and are increasingly deployed for operational business processes. In order to support business processes effectively PAIS must allow the creation of loosely specified process models, which are detailed during run-time, but also enable authorized users to flexibly deviate from the predefined processes as required (e.g., by adding, deleting or moving process activities) and to evolve business processes over time. At the same time PAIS must ensure consistency and robustness. The existence of different process support paradigms and the lack of methods for comparing existing change approaches make it hard for PAIS engineers to choose the adequate technology. In this presentation a set of changes patterns and change support features is presented, which fosters the systematic comparison of existing process management technologies with respect to process change support. The identified patterns and change support features facilitate the comparison of change support frameworks, and consequently will assist PAIS engineers in selecting the right technology for realizing a flexible PAIS.

SPEAKER

Barbara Weber is currently Assistant Professor in the Department of Computer Science at the University of Innsbruck, Austria, where she also obtained her PhD degree. Barbara is a member of the Quality Engineering research group and is involved in research and teaching business processes, workflow management and agile software development. Her main research interests are agile and flexible processes and intelligent user support in flexible systems. This spans several technology areas including workflow management systems, case-based reasoning, process-oriented knowledge management, enterprise information systems, process mining, and agile software development. To allow for the exchange of ideas with practice she is engaged in third-party funded projects with partners from different domains (e.g., healthcare, logistics industries). In the area of agile business processes Barbara has published several papers on topics like integrated process lifecycle support and change patterns. Further, Barbara has been organizer of several international workshops like Proflex'06, ProGility'07 and BPI'07 as well as of a think tank on business agility at AGILE 2007.