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		The DarkMatter Process EditorRelated Work; Representing and Reasoning with SME-authored Process Knowledge; A Formalism for Representing and Reasoning with Process Knowledge; F-logic as Process Representation and Reasoning Language; The Process Frame;

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Problem Solving Methods for the Analysis of Process ExecutionsA Knowledgeoriented Provenance Environment; An Algorithm for Process Analysis Using PSMs; Evaluation; Evaluation of the DarkMatter Process Component for Acquisition of Process Knowledge by SMEs; Evaluation Syllabus; Distribution of the Formulated Processes across the Evaluation Syllabus; Utilization of the PSM Library and Process Metamodel; Usage Experience of the SMEs with the Process Editor; Performance Evaluation of the Process Component; Evaluation of KOPE for the Analysis of Process Executions by SMEs; Evaluation Settings

Evaluation MetricsEvaluation Results; Evaluation Conclusions; Conclusions and Future Research; Conclusions; Future Research Problems; REFERENCES; Appendix. Sample F-logic Code for a Process Model

Sommario/riassunto	The development of knowledge-based systems is usually approached through the combined skills of knowledge engineers (KEs) and subject matter experts (SMEs). One of the most critical steps in this activity aims at transferring knowledge from SMEs to formal, machine-readable representations, which allow systems to reason with such knowledge. However, this is a costly and error prone task. Alleviating the knowledge acquisition bottleneck requires enabling SMEs with the means to produce the desired knowledge representations without the help of KEs. This is especially difficult in the case of compl