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Title : Model Matching Challenge: Benchmarks for Ecore and BPMN Diagrams
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ARTICLE 3

The document titled "Model Matching Challenge: Benchmarks for Ecore and BPMN Diagrams" discusses the importance of model comparison and differencing in the context of Model Driven Engineering (MDE) and software engineering. It highlights the need for dedicated tools to manage and version models and presents challenges in achieving high-quality results with existing model comparison algorithms.

The authors identify five problematic scenarios in which state-of-the-art model comparison approaches deliver low-quality or disputed results. These scenarios include move element, rename element, move renamed element, exchange location of elements, and update target of reference/flow element. The document provides examples of these scenarios in both Ecore and BPMN2 diagrams, illustrating the difficulties and proposing possible solutions.

The benchmarks presented in the document serve as examples for model developers to assess the quality and applicability of model comparison tools for different types of models. The examples are derived from real research projects involving structural Ecore diagrams and BPMN2 diagrams.

The document concludes by emphasizing the importance of understanding the requirements and limitations of model comparison algorithms in specific modeling domains. It highlights the need for accurate and reliable model differencing to support model-based development projects and decision-making processes.