Abstract: Web services orchestration receives an increasing attention as a concept to build business processes from. This paper addresses the growing heterogeneity of business process modeling standards in the area of web services. Research related to the comparison of process modeling techniques is presented and categorized into criteria-based, ontology-based, and transformation-based approaches. A new concept called Metadata Relationships (MR) is introduced to describe possible transformations between concepts from two different XML Schemas. This approach is applied for the comparison of BPML and BPEL4WS as two major standards in the area of business process modeling. Metadata Relationships are aggregated to discuss the interrelation of these two standards. Finally, implications for the heterogeneity of business process modeling standards are discussed, and further research is identified.

Keywords: Web Service Composition, BPML, BPEL4WS, Business Process Modeling, Schema Integration, Standards.