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Pattern-based Model Comparison

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Abstract:
Distributed conceptual modeling may lead to a set of problems whenever these models shall be compared or integrated. E.g., the same issue is modeled in different ways or different issues are modeled in the same way concerning naming and structure. The resolution and avoidance of different naming is subject of diverse approaches. However, managing differing structures is still an unsolved problem. Therefore, we propose an approach that makes use of structural model pattern matching in order to reveal structurally equivalent sections in conceptual models. Thus, professionals that have to compare models in order to decide on how to integrate them are provided with an enhanced decision support. The approach is generic in order to make it applicable for any conceptual modeling language.