

Онтология объединения информационных подсистем: принципы и примеры

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Аннотация

Статья посвящена вопросам объединения онтологий, которые используются при проектировании отдельных систем, входящих в корпоративную информационную систему. Данная задача возникает при построении единой онтологии для проектирования информационных систем в процессе интеграции различных информационных решений, а также при последовательном проектировании корпоративной информационной системы разными разработчиками в разное время. Предполагается, что онтологии построены по единым принципам и на основе единого тезауруса. Задача построения единой онтологии может представлять значительные трудности, связанные с необходимостью объединять онтологии, описывающие разные подсистемы предприятия. Рассмотрены вопросы формального определения возможности объединения онтологий без их предварительной доработки. Предложен критерий возможности объединения, разработана методика его расчёта на основе экспертных оценок. Рассмотрены примеры объединения онтологий с расчётом предложенного критерия. Новизна результатов заключается в разработке принципа и критерия объединения онтологий, разработке методики применения предложенного критерия.

Ключевые слова: онтология, объединение онтологий, проектирование, информационные системы, проектирование информационных систем, корпоративные информационные системы.

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Введение

Современный мир существует в информационном пространстве, где взаимодействует огромное количество информационных систем (ИС), решающих самые разнообразные задачи. Правительства принимают программы цифровизации¹, население живёт в «сетях» – это ведёт к необходимости объединения ИС. Практически все современные ИС имеют тот или иной механизм интеграции с окружающей экосистемой.

При решении задачи автоматизации в некоторой предметной области (ПрО), формулируется общая цель автоматизации, а также задаются некоторые характеристики ИС. При этом выбирается решение из множества существующих либо создаётся новое решение, фактически реализуя верхнюю ветвь пути моделирования и реализации, представленного на рисунке 1. В процессе те-



Рисунок 1 – Возможные пути моделирования и представления предметной области

¹ См. например, программа «Цифровая экономика Российской Федерации» – <http://government.ru/nagovclassifier/614/events/>.

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web background dixieland band was bred by bayard sharp a prominent and highly respected delaware horseman and president of the blood horse inc out of the sharp owned multiple stakes winning mare mississippi mud he was a son of the 20th century s most influential sire northern dancer racing career in may 1983 dixieland band won the

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web note the instrumentation for the trad jazz band charts aka dixieland band charts is usually full 8 piece dixieland size in other words most charts are clarinet trumpet tenor sax trombone piano banjo tuba drums most if not all of the arrangements should play very well with one or more parts missing

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web mar 23 2019 amazing grace arranged for 5pc dixieland band this arrangement does feature the trumpet this is a relaxed ballad that modulates to a boisterous end it also includes a sax solo and short clarinet solo moderate to difficult level angels we have heard on high arranged as a dixieland head chart all parts are written out for one time

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bass or tuba

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~~web this a true dixieland chart moderate to difficult level hansen charts patriotic dixieland series arrangements are the cream of the crop instrumental dixieland features originally created for some church concerts tours and some events with bill gaither by the hark up down home horns dixieland band~~

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