

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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Ying-Ying Zheng



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Sotsialnoe Obuchenie Molodezhi Optimalnye Usloviia Printsipy Tekhnologii: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Let's delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year.

The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Sotsialnoe Obuchenie Molodezhi Optimalnye Usloviia Printsipy Tekhnologii : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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