



基于多模态数据处理与动态任务规划的创作方法及系统

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Stage of Technology Transfer: Commercially Viable Technology/ Product Ready for Sale

Research Area: AI Technologies, Multimodal Data Processing, Dynamic Task Scheduling, and Content Generation

Abstract

This invention presents an intelligent content creation method and system leveraging multimodal data processing and dynamic task planning. When a user submits social media information, the system automatically retrieves and aggregates the user's historical social media data. Through deep analysis by multimodal models, the system constructs and stores user profiles in a database. During content creation, the system dynamically invokes appropriate large models based on multimodal recognition results: a video analysis model processes video content, an audio model converts audio data, and an image analysis model interprets image data. A large language model, in turn, integrates these analyses based on user queries for precise content generation. The system also records user interactions and behavioral data. A dynamic task planning module assesses the multimodal data, calling upon trend tracking tools or web search tools for content analysis as needed, enabling personalized, intelligent, and precise content creation that effectively enhances responsiveness and accuracy in the creative process.

摘要

本发明提供基于多模态数据处理和动态任务规划的智能内容创作方法与系统。用户提交社交媒体信息后，系统自动抓取并汇集用户的历史社交媒体数据，通过多模态模型对这些数据进行深入分析，构建并存储用户画像至数据库中。在用户创作内容时，系统依据多模态识别结果，动态调用适配的大模型：使用视频解析模型处理视频内容、音频大模型转化音频数据、图像解析模型分析图片等；大语言模型基于用户问题，整合分析结果进行精准生成。系统会记录用户的交互对话和行为数据。动态任务规划模块根据用户上传的多模态数据的解析结果，动态分析调用热点追踪工具或网络检索工具分析内容，实现个性化、智能化精准化的内容创作，有效提升创作的响应度和精准性。