Patent Search

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Abstract:

ABSTRACT INTEGRATED PROJECT MANAGEMENT SYSTEM USING ARTIFICIAL INTELLIGENCE FOR RESOURCE ALLOCATION The method for the development to artificial (AI) has improved resource allocation efficiency. Since resource management has a direct impact on the project's budget, timeline, and financial outcomes, it is crucia success. This abstract explores the use of AI in optimizing resource allocation techniques and lists potential benefits and drawbacks. Two examples of artificial intellig technologies that make it possible to analyze large volumes of historical project data, team performance indicators, and external repercussions are machine learning predictive analytics. This may be accomplished by creating complex models that can predict resource needs, spot prospective obstacles, and recommend the best inf tactics. By allocating resources and tasks optimally, the integrated system lowers planning stages by 88.7% and operating expenses by 14%. The integrated solution p beneficial as the project completion time increased by 50.80%. The goal of this project is to provide a way to use PMIS as an autonomous, data-driven system for opti resource and task allocation. However, the majority of automated planners now in use in artificial intelligence research does not take advantage of this loose coupling use the same algorithm for both resource assignment and action selection. FIG.1

Complete Specification

Description:Technical Field

[0001] The embodiments herein generally relate to a method for an integrated project management system using artificial intelligence for resource allocation.

Description of the Related Art

[0002] In today's business climate, efficient resource management is crucial to efficient project management. The ability to assign the right resources to the right the right time may have a significant influence on project results, timelines, and costs. Project management can take a revolutionary turn thanks to artificial intellige Artificial intellect (AI) is the umbrella term for a variety of methods that allow robots to mimic human intellect, do data analysis, and gain experience. Project manag improve project results by using AI to automate repetitive operations, obtain insightful information, and make data-driven choices. The development of a new planr framework, named Real Plan, separates resource allocation from planning and places it in a different scheduling phase. The planner and scheduler engage either in master-slave or peer-peer relationship while solving the scheduling issue with discrete resources. This scheduling problem is represented as a Constraint Satisfactic (CSP) problem.

[0003] Resource allocation, which includes assigning personnel, funds, equipment, and other resources to various project tasks, is an essential part of project management. Poor or ineffective resource allocation can lead to project delays, cost overruns, and decreased quality. Project complexity is always increasing, neces the use of more advanced management strategies. Even while they have their uses, traditional approaches can suffer from large datasets, unanticipated difficulties, monotonous work. Delays, budget overruns, and project failure are all possible outcomes of this. Project management may be completely transformed by artificial intelligence (AI), which does this by automating processes, delivering data-driven insights, and facilitating proactive decision-making

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