

عنوان مقاله:

Adjusting the project schedule by pre-control chart

محل انتشار:

شانزدهمین کنفرانس بین المللی انجمن ایرانی تحقیق در عملیات (سال: 1402)

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خلاصه مقاله:

Currently, the successful execution of projects is deemed essential for both countries and organizations. Planning and control serve as the two major pillars for achieving this success. A considerable amount of research is underway to explore various planning and control techniques. Amidst this research, a crucial question arises: Is the project scheduling, which serves as the foundation for project execution and control, appropriate? In simpler terms, does the scheduling align with the project's objectives? Moreover, at which stage of project implementation should plan revisions be considered? These questions have consistently troubled project management teams, and the absence of effective scientific methods compounds their concerns. One of the foremost concerns of project management teams is the lack of scientific methodologies in this context. This paper introduces a methodology for establishing and revising project schedules. This methodology relies on simulation techniques, pre-control charts, and specialized software to thoroughly evaluate the prepared schedule and implement necessary adjustments and approvals incrementally. Subsequently, during each time period, the monthly monitoring program reviews ongoing activities and, if required, applies revisions to the plan. The distinctive feature of this methodology lies in its ability to analyze the health of the program concerning the project's execution phase, determine when planning revisions are warranted, and tie the correctness of the revision program to the project's success. It is a unique, contemporary, and practical approach that holds significant potential.

کلمات کلیدی:

Project management, pre-control, simulation, scheduling, Monte Carlo Method, Practical

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