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Abstract
Enterprise Resource Planning (ERP) is planned and suited for the stable market demand, so it’s far away from responding the high volatility market. Hence, for the reasons such as highly changing environment, limited equipment productivity, and irregular customer orders...etc., we suggest the company should initiate the Advanced Planning and Scheduling (APS) system for the commitment of customer needs.
However, to implement the APS system, firms can either by purchasing or by self-developing. In the view of the APS system is a set of complicated software, and the firm’s self-developing costs and resources would larger than the buying software package directly, so there are some more decision factors need to concern for successfully setting up the APS system.
According to Boston AMR research center reports, the return on invested capital is 300% more of the APS installed companies. Therefore, this study attempts to discuss how to evaluate the APS software, and to establish the viable evaluation criteria for bring out the best software supplier. For the interdependence problems that may counter in the evaluation procedure, we use the Analytic Network Process (ANP) to run the applicable evaluation model. We then take case from a small and medium enterprise to demonstrate the evaluation framework.
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