عنوان مقاله:

Using Fuzzy-TOPSIS Method to Prioritize Manufacturing Processes in order to Solve an Assembly Line Balancing (Problem (A Case Study in Elevator Control Panel Industry

محل انتشار:

سومین همایش بین المللی مهندسی مکانیک، صنایع و هوا فضا (سال: 1398)

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خلاصه مقاله:

In this research the processes of an electrical manufacturing system are considered to be optimized. At first, the processes of production line, their times and procedures are investigated and some ALBPs used to optimize the processes. Then, some important indexes are listed. Based on these factors, the processes are prioritized and the assembly line problem is solved. Finally, the results acquired from F-TOPSIS methods are compared with the results of ALBP methods. Efficiency and cycle time are the most important factors analyzed for ALBP in this research. The results calculated in this research proves that the efficiency of F-TOPSIS method is so high, idle time of workstations are as minimum as possible and to compare with other general ALB techniques, it prioritizes the tasks better and .more efficient

کلمات کلیدی:

F-TOPSIS, Assembly Line Problems (ALBPs), Greatest Ranking Position Weight (GRPW), Production Line Efficiency, Prioritization