

عنوان مقاله:

A new mathematic model for determining cell formation, cell layout and intracellular sequences in cellular systems, considering the cost of allocating cells

محل انتشار:

هجدهمین همایش ملی دانشجویی مهندسی صنایع (سال: 1399)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

Cell production system is used to improve the flexibility and production efficiency. The purpose of the cellular production system is to allocate machines in such a way that the intercellular movement is at least as high as possible. The contribution of this study is to provide a model in which, in addition to discussing the formation, layout and sequencing of cells in the cell, they discussed the placement of cells in predetermined locations, as well as considering the volume constraints for each cell with considering the occupied volume by machines. In this paper, the problem of the cell production system is aimed at minimizing intracellular transposition to the layout of the cells and the sequence of machines in each cell and the placement of cells in predetermined locations. After writing the first model, the model is linearized, then the generalized model with two objective functions presented, and finally, an optimal optimization test is calculated using the GAMS software

کلمات کلیدی:

cell production; machine sequence; cell layout; allocation; placement

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1138204>

