

可重构机床模块划分研究 Modular Division Oriented to Reconfigurable Machine Tools

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关键词: 可重构机床 模块划分 模糊聚类

摘要: 综合考虑重构需求、结构功能和生命周期的影响,使用柔性模块划分方法对可重构机床模块划分进行了研究。采用层次分析法对影响模块形成的因素进行了权重分配,得到了机床零件之间的交互值并形成了相关矩阵,使用模糊聚类法对相关矩阵进行操作;考虑到可重构机床的特殊性,对其控制系统也进行了模块划分,最后得到了可重构机床模块划分的总体方案。 A flexible modular division method was proposed to the reconfigurable machine tools (RMT) considered the influence of customer demand, the structure-function and life cycle effect. Analytic hierarchy process (AHP) was used to weight the different influence factors and the interaction among the machine tool parts and the related matrix were obtained. The fuzzy clustering method was used to operate the matrix. The control system was modular divided based on the specialty of RMT. The proposal for RMT modular division was obtained and could be used as the foundation of RMT developing.

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