

博士论坛

因素空间理论与知识表示的数学框架——突变型标准综合函数的性质与构造

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收稿日期 2009-10-20 修回日期 2010-1-7 网络版发布日期 2010-3-11 接受日期

摘要 综合函数作为因素状态合成的工具, 在多准则Fuzzy决策、综合程度估计以及多因素Fuzzy决策当中都得到了成功的应用。Bellman等人详细研究了可加型标准综合函数, 在此基础上, 研究了非可加型标准综合函数, 即突变型标准综合函数的公理化定义, 以及性质和构造。

关键词 [因素空间](#) [综合函数](#) [非可加型标准综合函数](#) [突变型标准综合函数](#)

分类号 [O159](#)

Factor spaces and mathematical frame of knowledge representation— Properties and composition of catastrophic standard multifactorial function

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Abstract

As a tool of composing states of factors, multifactorial function which has been successfully applied in fuzzy decision-making and comprehensive degree evaluation. In the paper proposed by Bellman et al., the additive standard multifactorial function has been studied in detail. As a series of the paper proposed by Bellman et al., the axiomatic definition of the nonadditive standard multifactorial function is given. The construction and the properties of it are also researched.

Key words [factor spaces](#) [multifactorial function](#) [nonadditive standard multifactorial function](#) [catastrophic standard multifactorial function](#)

DOI: 10.3778/j.issn.1002-8331.2010.08.007

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