

23(8)

扩展功能

本文信息

► [Supporting info](#)

► [PDF\(0KB\)](#)

► [\[HTML全文\]\(0KB\)](#)

► [参考文献](#)

服务与反馈

► [把本文推荐给朋友](#)

► [加入我的书架](#)

► [加入引用管理器](#)

► [复制索引](#)

► [Email Alert](#)

► [文章反馈](#)

► [浏览反馈信息](#)

相关信息

► [本刊中包含“hypermodule”的相关文章](#)

► 本文作者相关文章

· [詹建明](#)

· [Bijan DAVVAZ](#)

· [K P SHUM](#)

## A new view of fuzzy hypermodules

詹建明(1), Bijan DAVVAZ(2), K. P. SHUM(3)

(1)恩施湖北民族学院数学系; (2)Department of Mathematics, Yazd University, Yazd, Iran; (3)Faculty of Science, The Chinese University of Hong Kong, Shatin, Hong Kong (SAR), P. R. China

收稿日期 2006-5-25 修回日期 网络版发布日期 2007-6-11 接受日期 2007-1-12

摘要

关键词 [hypermodule](#) [interval-valued \\$\(\alpha,\beta\)\\$-fuzzy sub-hypermodule](#) [interval-valued \\$\(\in,\in\vee q\)\\$-fuzzy sub-hypermodule](#) [fuzzy logic](#) [implication operator](#)

分类号 [20N20](#)

## A New View on Fuzzy Hypermodules

Jian Ming ZHAN(1), Bijan DAVVAZ(2), K. P. SHUM(3)

(1)Department of Mathematics, Hubei Institute for Nationalities; (2)Department of Mathematics, Yazd University, Yazd, Iran; (3)Faculty of Science, The Chinese University of Hong Kong, Shatin, Hong Kong (SAR), P. R. China

**Abstract** This paper concerns a relationship between fuzzy sets and algebraic hyperstructures. It is a continuation of ideas presented by Davvaz(Fuzzy Sets Syst. 117: 477-484 2001) and Bhakat and Das(Fuzzy Sets Syst. 80: 359-368 1996). In this paper, the concept of quasi-coincidence of a fuzzy interval value with an interval valued fuzzy set, which is a generalization of quasi-coincidence of a fuzzy point with a fuzzy set, is introduced. Using this new idea, the notion of interval valued \$(\alpha,\beta)\$-fuzzy sub-hypermodules in a hypermodule, which is a generalization of a fuzzy sub-hypermodule, is defined, and related properties are investigated. In particular, the study of interval valued \$(\in,\in\vee q)\$-fuzzy sub-hypermodules in a hypermodule is dealt with. Finally, we consider the concept of implication-based interval valued fuzzy sub-hypermodules in a hypermodule.

**Key words** [hypermodule](#) [interval-valued \\$\(\alpha,\beta\)\\$-fuzzy sub-hypermodule](#) [interval-valued \\$\(\in,\in\vee q\)\\$-fuzzy sub-hypermodule](#) [fuzzy logic](#) [implication operator](#)

DOI: 10.1007/s10114-007-0951-7

通讯作者 詹建明 [zhanjianming@hotmail.com](mailto:zhanjianming@hotmail.com)