

研究、探讨

粗糙集、商空间及概念格中粒的统一描述

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摘要 粗糙集、商空间及概念格被认为是粒计算研究的重要方面, 之所以如此是因为其中均包含了粒的概念。为对这些来自不同领域的粒实施统一的描述, 在给定的论域上构造了逻辑公式, 由此引出了对应论域的粒空间, 并给出了粒空间中抽象粒的定义。通过分析处理, 证明了粗糙集、商空间和概念格中出现的粒都可以采用粒空间中的抽象粒予以描述, 使得以不同方式获取的粒得到了统一, 从而为粒计算的形式化定义提供了思路。

关键词 [粒空间](#) [直观粒](#) [抽象粒](#) [描述](#)

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Uniform description for granules appearing in rough set, quotient space and concept lattice

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Abstract

Rough set, quotient space and concept lattice are generally regarded as important researches on granular computing because they all concern the concept of granules. In order to make a uniform description for the granules which come from the different areas, logical formulas based on a universal set are constructed, so that granular space corresponding to the universal set is introduced, and abstract granules are defined within the space. By making analyses, it is proved that the granules involved in rough set, quotient space and concept lattice can be described by abstract granules. Thus, the granules obtained by means of different ways achieve the unification, which will provide a way for formulization on granular computing.

Key words [granular space](#) [intuitive granule](#) [abstract granule](#) [description](#)

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