

“Admissible” な選好と双極尺度に関する菅野積分

Admissible Preference Orders and Bipolar Sugeno Integrals

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Abstract: Several types of hierarchical fuzzy integral models in decision theory have been proposed and been investigated by many researchers. Some of them aim to simplify the models. Others aim to build a high modeling capability. Recently, the notion of *hierarchical bipolar Sugeno integral* has been proposed by Sugeno and Nakama in order to represent/model almost all *admissible* preference orderings. It is known that the ordinary Sugeno integral can be represented as a hierarchical Choquet integral. However, it has never been known whether the hierarchical bipolar Sugeno integral can be represented as some types of Choquet integrals, or not. This paper will show that the hierarchical bipolar Sugeno integral can be represented as a hierarchical bipolar Choquet integral.

Keywords: admissible preference order, hierarchical bipolar Sugeno integral, bi-capacity

JEL classifications: C71, D70, D81,