

Parameters Estimation of Multidimensional Possibility Distributions

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Abstract : We present a solution to the Maxmin u/E parameters estimation problem of possibility distributions in m-dimensional case. Our method is based on geometrical approach, where minimal area enclosing ellipsoid is constructed around the sample. Also we demonstrate that one can improve results of well-known algorithms in fuzzy model identification task using Maxmin u/E parameters estimation.

Keywords : possibility distribution, parameters estimation, Maxmin u/E estimator, fuzzy model identification

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