SOME ALTERNATIVE CONCEPS FOR FUZZY NORMED
SPACE AND FUZZY 2-NORMED SPACE

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Abstract

We study some alternative concepts for a fuzzy normed space and a fuzzy 2-
normed space together with a fuzzy inner product space and a fuzzy 2-inner
product space. The method is to make use of fuzzy points. We also discuss the
relation between a normed space and a fuzzy normed space and the
generalization of a fuzzy normed space to a fuzzy 2-normed space. Converse,
a fuzzy 2-normed space is reduced to a fuzzy normed space. The
same method is applied to fuzzy inner product spaces.

Keywords and phrases: fuzzy normed space, fuzzy 2-normed space, fuzzy point.

Received July 2, 2015

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