On fuzzy normed spaces

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According to the notion of a fuzzy metric due to George and Veeramnai, we give a concept of fuzzy norm which permits us, in a similar way to the classic case, to induce a fuzzy metric which is invariant for (fuzzy)traslation. We also prove that each normed linear space can be endowed with the structure of a fuzzy normed space.

Although we do not know if the converse holds, we show that the topological space induced by a fuzzy normed space has the structure of a topological linear space.