Fixed point theory over fuzzy normed linear spaces

Abstract

In fuzzy setting studies on metric fixed point theory was initiated by Osmo Kaleva and S. Seikkala in 1984 and later on many authors have worked in this direction. But all those works are restricted to fuzzy metric spaces only and the underlying mappings are of contraction type. But no significant development was found in the fixed point theory of non-expansive type mappings in fuzzy normed linear space setting. Recently we have tried to develop fixed point theory in this direction. In the present talk an outline will be given on the development of fixed point theory in fuzzy normed linear spaces.