

Seminar: ***k*-set-pseudo-contractions**

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ABSTRACT: We introduce the new notion of a k -set-pseudo-contraction, where $k > 0$ and show that several well-known mappings, e.g., the condensing mappings and the compact perturbations of k -pseudo-contractive mappings are embraced in the class of k -set-pseudo-contractions. An invariance of domain theorem and a fixed point theorem are proved for a k -set-pseudo-contraction ($0 < k \leq 1$) which is also an L -set-contraction ($L \geq 0$).