

THE CONTINUOUS DEPENDENCE OF THE FIXED POINTS FOR NONEXPANSIVE AND QUASI-NONEXPANSIVE MAPPINGS IN UNIFORMLY CONVEX BANACH SPACE

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Abstract. Recently, in the papers [14] and [15], the author established some results pertaining to the continuous dependence of the fixed points in normed space and Banach space settings for some iterative processes by using general contractive conditions. Both papers were devoted to the partial fulfillment of the open question in [3], that is, "apart from the Picard iteration, the continuous dependence of the fixed points has not been studied so far for other fixed point iteration procedures." In the present paper, our purpose is to further investigate the continuous dependence of the fixed points in uniformly convex Banach space for nonexpansive and quasi-nonexpansive mappings. Our results extend some recently announced ones in the current literature.

Key Words and Phrases: Normed space, Banach space, fixed point, continuous dependence, uniformly convex Banach space.

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