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Cone G-Metric Spaces with w-distance.

Huang Long-Guang, Zhang Xian [Cone metric spaces and fixed point theorems of contractive mapping, J. Math. Appl., 332(2007) 1468-1476] introduced the concept of cone metric spaces. On the other hand the concept of a w-distance was introduced by Osama Kada, Tomonari Suzuki, and Wataru Takahashi [Nonconvex minimization theorems and fixed point theorems in complete metric spaces, Math. Japonica, 44 (1996) 381-591], and Naoki Shioji, Tomonari Suzuki, and Wataru Takahashi [Contractive mappings, Kannan mappings and metric completeness, Bull. Amer. Math. Soc. 10(1998) 3117-3124]

In this talk a notion of cone G-metric spaces with w-distance is introduced, and the proof of some Banach type fixed point theorems are sketched. (Received February 12, 2014)