

## ON SP-ITERATION SCHEMES FOR MULTI-VALUED MAPPINGS IN CAT(0) SPACES

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**Abstract.** In this paper, we extend known results on convergence of SP-iterations to fixed points of nonexpansive single-valued mappings to a multi-valued version. In order to do so, we prove strong convergence theorems for SP-iteration schemes involving quasi-nonexpansive multi-valued mappings in the framework of CAT(0) spaces.

**Key Words and Phrases:** Multi-valued nonexpansive mappings, SP-iteration process, strong convergence, CAT(0) spaces.

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