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SET-VALUED MAPS WITH FIXED AND COINCIDENCE POINTS

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Abstract. In this paper, we prove the existence of solutions of functional equations $f_i x \in Sx \cap Tx$ and $x = f_i x \in Sx \cap Tx$ under certain nonlinear hybrid contraction and asymptotic regularity conditions, generalize and improve a recent result due to V. Popa concerning common fixed points of multi-valued mappings weakly commuting with a single-valued mapping and satisfying a generalized contraction type condition. In the sequel, we derive several independent results.

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