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Coincidence points and maximal elements of multifunctions on convex spaces

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Abstract: Generalized and unified versions of coincidence or maximal element theorems of Fan, Yannelis and Prabhakar, Ha, Sessa, Tarafdar, Rim and Kim, Mehta and Sessa, Kim and Tan are obtained. Our arguments are based on our recent works on a broad class of multifunctions containing composites of acyclic maps defined on convex subsets of Hausdorff topological vector spaces.

Keywords: convex space, polytope, multifunction (map), upper semicontinuous (u.s.c.), lower semicontinuous (l.s.c.), compact map, acyclic, Kakutani map, acyclic map, admissible class, almost p-affine, almost p-quasiconvex, maximal element
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