Covering radius for sets of permutations

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Given a finite set of points P in a metric space M, the covering radius of P in M is the smallest number r such that balls of radius r centered on all the points in P cover the entire space. In this talk, we give a survey on this problem when P is a set of permutations, and M is the symmetric group equipped with some metric d. In particular, we discuss known results when d is the Hamming distance and our recent progress when d is the infinity norm function.