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On the reversibility of topological spaces and related notions

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Abstract: In 1965 Rajagopalan and Wilansky consider a topological property which was not new at that time but seemed not to have systematically investigated. Shortly, they called a topological space reversible if each continuous bijection of the space onto itself is a homeomorphism. In 2017 Shakhmatov and the speaker observed a possibility to generalize the reversibility to categories. In particular, they considered an analogue of the notion for topological groups. In this talk we will recall some old results and mention new ones.