

Some Decompositions of Compactness and Normality [†]

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Abstract: Normality and compactness play a very important role in the study of General Topology. To investigate topological properties, various tools were utilized by topologists, and decomposition/factorization of topological spaces is one of them. In the present discussion, the closure operator defined by Veličko is utilized to decompose normality and compactness. It observed that a class of space that factorizes compactness is a class that contains both the class of regular spaces and the class of compact spaces. Similarly, a class of spaces containing both the class of normal and regular spaces plays a significant role in factorizing normality.

Keywords: normality and compactness; general topology.

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Conflicts of Interest

The authors declare no conflict of interest.