Malghan, S. R.

Generalized closed maps. (English) Zbl 0578.54008

J. Karnatak Univ., Sci. 27, 82-88 (1982).

The author establishes the following theorems: (1) Normality is preserved under generalized-closed continuous surjections. (2) Regularity is preserved under generalized-closed continuous open surjections. (3) For any generalized-closed set A of a topological space X, Ind $A \leq IndX$ and dim $A \leq \dim X$, where Ind and dim are large inductive dimensions and covering dimensions, respectively. These theorems are the natural extensions of the corresponding theorems for closed sets and closed functions.

Reviewer: E.Duda

MSC:

54C10 Special maps on topological spaces (open, closed, perfect, etc.)
54F45 Dimension theory in general topology

Keywords:

normality; generalized-closed continuous surjections; regularity; generalized-closed continuous open surjections; large inductive dimensions; covering dimensions