



ON THE INVARIANCE PROPERTY FOR ST -FLOWS IN THE SHAPE THEORY OF TOPOLOGICAL SEMIGROUPS

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Abstract

The main objective of this paper is to extend S -invariance property for S -flow in the shape theory for topological spaces to their analogical structures in the shape theory for topological semigroups. This extension involves some concepts and results such as ST -flow, ST -invariance property and giving an equivalence relation on a topological semigroups which correspond, under the action of a topological monoids, to the ST -invariant control sets for control systems. For this relation, we prove that there are unique relative ST -invariant classes.

Keywords and phrases: topological semigroup, S -flow.

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