



Univerzitet u Sarajevu
Prirodno-matematički fakultet
ODSJEK ZA MATEMATIKU

Abstract

It is well-known that in topological groups the separation axioms T_0 and T_2 are equivalent. This equivalence disappears if we consider more general algebraic structures topological inverse semigroups, or weaken the connection between the topological and the algebraic structures, semi-topological groups, inverse semigroups. A. Conte gave sufficient conditions for topological inverse semigroups which ensure the validity of the separation axioms T_0 , T_1 , T_2 , and those falling between T_0 and T_1 . He also gave examples of topological inverse semigroups where the mentioned separation axioms are not equivalent. His idea was to require separation-like conditions related to the set of idempotents, or in the relation between an idempotent and an other element. Recent results underline the importance of the study of the separation axioms in such structures. The aim of this presentation is to study in semi-topological and topological inverse semigroups separation axioms between T_1 and T_2 , T_3 and also those which satisfy certain order conditions.

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About separation axioms in
topological inverse semigroups

Petak, 23. oktobar 2015. godine, 12:00 sati
Prirodno-matematički fakultet
Odsjek za matematiku, sala RC