

End-homogeni grafovi u mešovitom slučaju

Graf je end-homogen ako za svaki homeomorfizam između dva njegova indukovana podgrafa može proširiti do endomorfizma. U radu su ispitivane osobine end-homogenih grafova kada postoje čvorovi i sa i bez petlji i tražena njihova što bolja karakterizacija. U slučaju nepovezanih grafova prezentovana je teorema koja ispitivanje end-homogenosti nepovezanog grafa svodi na ispitivanje end-homogenosti povezanog grafa sa svim petljama, dok su u slučaju povezanih grafova pronađeni potrebni uslovi i netrivialne klase ovih grafova.

Homomorphism–Homogeneous Graphs

A structure is homomorphism-homogeneous if every homomorphism between the finite substructures of the structure extends to an endomorphism of the structure. In this paper, the properties of end-homogeneous graphs, both with vertices and without loops, were examined. Our aim was to find their best possible characterization. In the case of disconnected graphs, a theorem that reduces the testing of whether a graph is homomorphism-homogeneous is presented.