

1064-05-150

Michael Ferrara* (michael.ferrara@ucdenver.edu), **Michael Jacobson** and **Florian Pfender**. *Degree Conditions for H -Linked Digraphs*.

Given a digraph H , an H -subdivision is any simple graph obtained by replacing each arc uv of H with a (directed) $u - v$ path of arbitrary length. A directed graph D is H -linked if every injective function $f : V(H) \rightarrow V(D)$ extends to an H -subdivision in G . The H -linkage property has been well-studied in undirected graphs, and in both the directed and undirected case generalizes the notions of k -linked and k -ordered (di)graphs. Here, we give sharp degree-sum and minimum semi-degree conditions that assure a digraph D is H -linked for arbitrary H . This extends recent results of Kuhn and Osthus on k -linked and k -ordered graphs. (Received September 06, 2010)