Panda, B. S.
The forbidden subgraph characterization of directed vertex graphs. (English) | Zbl 0928.05029 |
Discrete Math. 196, No. 1-3, 239-256 (1999).

For a family F of non-empty sets, an undirected graph G is an intersection graph for F if there is a one-to-one correspondence between vertices of G and the sets of F such that two vertices in G are adjacent if and only if the corresponding sets in F have a non-empty intersection. A graph is a directed vertex graph or a directed path graph if it is the intersection graph of a family of directed paths in a directed tree. The author gives a characterization of directed vertex graphs based on 15 forbidden subgraphs.

Reviewer: D.P.Brown (Carbondale)

MSC:

05C20	Directed graphs (digraphs), tournaments
05C75	Structural characterization of families of graphs

Cited in **7** Documents

Keywords:

digraphs; intersection graph; directed vertex graph; directed path graph; characterization; forbidden subgraphs

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