

**Bang-Jensen, Jørgen; Havet, Frédéric**

**Tournaments and semicomplete digraphs.** (English) Zbl 1407.05102

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Summary: The class of tournaments is by far the most well-studied class of digraphs with many deep and important results. Since *J. W. Moon's* pioneering book [Topics on tournaments. New York etc: Holt, Rinehart and Winston (1968; [Zbl 0191.22701](#))], the study of tournaments and their properties has flourished and research on tournaments is still a very active area. Often this research deals with the superclass of semicomplete digraphs which are digraphs with no pair of non-adjacent vertices (that is, contrary to tournaments, we allow directed cycles of length 2). In this chapter we cover a very broad range of results on tournaments and semicomplete digraphs from classical to very recent ones. In order to stimulate further research, we not only list a number of open problems, but also give a number of proofs which illustrate the diversity of proof techniques that have been applied. These range from elementary to quite advanced.

For the entire collection see [[Zbl 1398.05002](#)].

#### MSC:

[05C20](#) Directed graphs (digraphs), tournaments

[05-02](#) Research exposition (monographs, survey articles) pertaining to combinatorics

Cited in 4 Documents

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