

Nešetřil, Jaroslav; Milková, Eva; Nešetřilová, Helena

Otakar Borůvka on minimum spanning tree problem. Translation of both the 1926 papers, comments, history. (English) [Zbl 0999.01019](#)
[Discrete Math.](#) 233, No. 1-3, 3-36 (2001).

Early in the 20th century there appeared the following minimum spanning tree problem (for its early history, see *R. L. Graham* and *P. Hell* [*Ann. History Comput.* 7, No. 1, 43-57 (1985; [Zbl 0998.68003](#)]); the formulation of the problem is modern): Given a connected graph with real weights assigned to its edges, find a spanning tree with the minimal weight. The problem has been solved by *O. Borůvka* (1899-1996) in 1926 [*Práce Moravské Přírodovědecké Společnosti Brno* 3, 37-58 (1926)] and this paper provides an English translation of his two works on it (originally in Czech), followed by remarks on its further development and by a short biography of Borůvka. The bibliography is extensive and consists of 51 items.

Reviewer: [Roman Duda \(Wrocław\)](#)

MSC:

- [01A60](#) History of mathematics in the 20th century
- [01A75](#) Collected or selected works; reprintings or translations of classics
- [90C27](#) Combinatorial optimization
- [90-03](#) History of operations research and mathematical programming

Cited in **12** Documents

Biographic references:

[Borůvka, O.](#)

Full Text: [DOI](#)