

**Povzetek:**

V delu najprej definiramo rotagrafe. Podrobno raziščemo, kdaj so ti dvodelni, povezani, regularni in poiščemo njihov spekter. Predstavljen je tudi algoritem za iskanje spektra. Nato ugotovimo, kdaj je nek graf rotagraf. Predlagani sta dve metodi za lepo risanje rotagrafov. Dodan je obširen izbor zgledov.

**Abstract:**

In present work, rotagraphs are introduced. Necessary and sufficient conditions for rotagraphs being bipartite, connected, and regular are given. An algorithm for computing spectra of rotagraphs is presented. A method for testing, whether a given graph is a rotagraph, is introduced. Two methods for drawing rotagraphs are suggested. An extensive list of rotagraphs is added.

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Key words: Rotagraph, Covering graph, Spectrum, Bipartite graph, Connected graph, Regular graph

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