

Kumlander, Deniss**Real-time systems: incomplete solution approach for the maximum-weighted clique problem.** (English) [Zbl 1157.68406](#)

Gammerman, A. (ed.), Artificial intelligence and applications. Machine learning. As part of the 26th IASTED international multi-conference on applied informatics. Calgary: International Association of Science and Technology for Development (IASTED); Anaheim, CA: Acta Press (ISBN 978-0-88986-710-9/CD-ROM). 140-145 (2008).

Summary: In this paper we are reviewing how the maximum-weight clique problem is solved in the real-time systems' environment by the best-known algorithms. The real-time environment is a quite unique one applying interesting restrictions on algorithms to be used and is rarely considered by researches although a lot of applications are hosted there. The main conflict to be researched here is produced by a time complexity of the maximum-weight clique problem and the real-time systems' requirement to solve a case during a predefined time interval. In this article an "incomplete solution" approach is used to explore maximum-weight clique algorithms performance.

For the entire collection see [\[Zbl 1154.68012\]](#).

MSC:

[68R10](#) Graph theory (including graph drawing) in computer science
[68W05](#) Nonnumerical algorithms

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[graph](#); [artificial intelligence](#); [real-time](#)