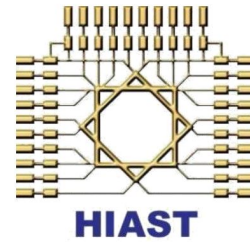


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Fourth Year



Using Genetic Algorithms to Find Approximations for the Minimum Vertex Cover Problem

Keywords: genetic algorithms, NP-complete, combinatorial optimization,
non-deterministic algorithms, approximation algorithms, minimum vertex cover.

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February 21, 2018

Abstract

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1 Introduction

This is the first [3] section. [1]

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2 Second Section

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2.1 First Subsection

Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales...

Unnumbered Section

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam [2] lobortis facilisis sem

References

- [1] P. A. M. Dirac. *The Principles of Quantum Mechanics*. International series of monographs on physics. Clarendon Press, 1981.
- [2] A. Einstein. Zur Elektrodynamik bewegter Körper. (German) [On the electrodynamics of moving bodies]. *Annalen der Physik*, 322(10):891–921, 1905.
- [3] D. E. Knuth. *The Art of Computer Programming*. Four volumes. Addison-Wesley, 1968. Seven volumes planned.