In the following i) the used search strings for the databases, and ii) the exact queries which have been made are outlined for reproducibility purposes. It shall be noted that although semantically identical, the search strings varied slightly between the databases. The respective reasons are subsequently mentioned in the according text locations. Furthermore, the exact queries also reflect the extent of filters which could have been applied to apply the inclusion/exclusion criteria partly already in this phase.

1. Search strings used for the databases and according reasons for adaptation:

- Scopus/ACM/IEEE: (quantum AND combinatorial AND optimization)
  Note: ("quantum computing")AND(("combinatorial optimization")) was too restrictive
- Arxiv: ("quantum combinatorial optimization")
  Note: Arxiv searches with very soft constraints. Just some terms need to appear similarly in the abstract.
- DBLB: Quantum Combinatorial Optimization
  Note: Only single term search is possible. Using the term "computing" was too restrictive.

2. Used queries for the various databases:

Scopus:

(*quantum* AND *combinatorial* AND *optimization*) AND (LIMIT-TO (SUBJAREA , *"COMP"*)) AND (LIMIT-TO (PUBYEAR , *2021*) OR LIMIT-TO (PUBYEAR , *2020*) OR LIMIT-TO (PUBYEAR , *2019*) OR LIMIT-TO (PUBYEAR , *2018*)) AND (LIMIT-TO (EXACTKEYWORD , *"Quantum Computing"*) OR EXCLUDE (EXACTKEYWORD , *"Quantum Theory OR EXCLUDE EXACTKEYWORD"*) OR EXCLUDE (EXACTKEYWORD , *"Computation Theory"*) OR EXCLUDE (EXACTKEYWORD , *"Artificial Intelligence"*) OR EXCLUDE (EXACTKEYWORD , *"Computer Hardware"*) OR EXCLUDE (EXACTKEYWORD , *"Cryptography"*) OR EXCLUDE (EXACTKEYWORD , *"Neural Networks"*) OR EXCLUDE (EXACTKEYWORD , *"Quantum Chemistry"*) OR EXCLUDE (EXACTKEYWORD , *"Decision Making"*) OR EXCLUDE (EXACTKEYWORD , *"Algebra"*) OR EXCLUDE (EXACTKEYWORD , *"Learning Systems"*) OR EXCLUDE (EXACTKEYWORD , *"Matrix Algebra"*) OR EXCLUDE (EXACTKEYWORD , *"Quantum Communication"*) OR EXCLUDE (EXACTKEYWORD , *"Blockchain"*) OR EXCLUDE (EXACTKEYWORD , *"Particle Swarm Optimization (PSO)"*) OR EXCLUDE (EXACTKEYWORD , *"Simulated Annealing"*) OR EXCLUDE (EXACTKEYWORD , *"Quantum Theory"*) OR EXCLUDE (EXACTKEYWORD , *"Quantum Optics"*) OR EXCLUDE (EXACTKEYWORD , *"Machine*

Learning") OR EXCLUDE (EXACTKEYWORD , *"Genetic Algorithms"*) OR EXCLUDE (EXACTKEYWORD , *"Computer Circuits"*) OR EXCLUDE (EXACTKEYWORD , *"Quantum Cryptography"*) OR EXCLUDE (EXACTKEYWORD , *"Public Key Cryptography"*) OR EXCLUDE (EXACTKEYWORD , *"Codes (symbols)"*) OR EXCLUDE (EXACTKEYWORD , *"Clustering Algorithms"*) OR EXCLUDE (EXACTKEYWORD , *"Computer Aided Design"*) OR EXCLUDE (EXACTKEYWORD , *"Deep Learning"*))

Arxiv:

Query: order: -announced_date_first; size: 200; date_range: from 2018-01-01 to 2021-04-06; classification: Computer Science (cs), Physics (grp_physics)::Quantum Physics (quant-ph); include_cross_list: True; terms: AND abstract=quantum combinatorial optimization

ACM:

11 Results for: [Abstract: quantum] AND [Abstract: combinatorial] AND [Abstract: optimization] AND [Publication Date: (01/01/2018 TO 04/30/2021)]

IEEE:

Showing 1-11 of 11 for

(quantum AND combinatorial AND optimization)

Filters Applied:

2018 - 2021

Subscribed content

DBLB:

Quantum Combinatorial Optimization; 2018-2021

12 results