

Abbreviations

- NPc* : Class of *NP*-complete problems
- FPTAS : Fully Polynomial Time Approximation Scheme
- VDS : Variable depth search
- TSP : Traveling Salesman Problem
- GPP : Graph Partitioning Problem
- UBQP : Unconstrained binary quadratic programming problem
- MVC : Minimum vertex cover problem
- MWVC : Minimum Weighted vertex cover problem
- MIS : Maximum Independent Set problem
- MWIS : Maximum Weighted Independent Set problem
- MCP : Maximum Clique Problem
- MWCP : Maximum Weighted Clique Problem
- FPT : Fixed parameter tractability
- ACO : Ant Colony Optimization
- DS : Dominating set
- mDS : Minimal dominating set
- CDS : Connected dominating set
- MCDS : Minimum connected dominating set

IPP : Integer Programming Problem
VSA : Vertex Support Algorithm
SRA : Support Ratio Algorithm
D-LP : Dual-LP Method
TS : Tabu Search Method
WR : Wt-RAND Method
CMO : Contact Map Overlap
PDB : Protein Data Bank
USM : Universality Similarity Measure
UDG : Unit Disk Graph
SLS : Support based local search algorithm
avg : average maximum clique size
worst : maximum clique size for the 100 VSA trials
CPU(s) : Run-time in CPU seconds averaged overall successful runs