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CSAIL

Generalized-Conflict-directed Branch & Bound

- 1. Learns conflicts from search tree nodes found
 - Infeasible or
 - Sub-optimal
- 2. Branches using conflicts to guide forward search away from infeasible and sub-optimal states.
- 3. Bounds using unit clause relaxation
- Deduces (some) entailed unit clauses.
- Demonstrates substantial performance improvement
 - For both Best-first and depth-first Branch & Bound search,
 - In terms of speed and memory usage.

Compared with

- BIPs
- Traditional BFS and B&B
- Backup on conflicts.

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