Notes sur « SATLIB - Benchmark Problems »

Lien : https://www.cs.ubc.ca/~hoos/SATLIB/benchm.html

Plusieurs problèmes de contrainte abordées dans ce lien, on élimine ceux qui sont aléatoires

"Flat" Graph Colouring

Lien description : https://www.cs.ubc.ca/~hoos/SATLIB/Benchmarks/SAT/GCP/descr.html

- flat30-60: 30 vertices, 60 edges - 100 instances, all satisfiable
- flat50-115: 50 vertices, 115 edges - 1000 instances, all satisfiable
- flat75-180: 75 vertices, 180 edges - 100 instances, all satisfiable
- flat100-239: 100 vertices, 239 edges - 100 instances, all satisfiable
- flat125-301: 125 vertices, 301 edges - 100 instances, all satisfiable
- flat150-360: 150 vertices, 360 edges - 100 instances, all satisfiable
- flat175-417: 175 vertices, 417 edges - 100 instances, all satisfiable
- flat200-479: 200 vertices, 479 edges - 100 instances, all satisfiable

"Morphed" Graph Colouring

Lien description : https://www.cs.ubc.ca/~hoos/SATLIB/Benchmarks/SAT/SW-GCP/descr.html

- sw100-8-lp0-c5: 100 vertices, 400 edges, p=1 - 100 instances, all satisfiable
- sw100-8-lp1-c5: 100 vertices, 400 edges, p=2^-1 - 100 instances, all satisfiable
- sw100-8-lp2-c5: 100 vertices, 400 edges, p=2^-2 - 100 instances, all satisfiable
- sw100-8-lp3-c5: 100 vertices, 400 edges, p=2^-3 - 100 instances, all satisfiable
- sw100-8-lp4-c5: 100 vertices, 400 edges, p=2^-4 - 100 instances, all satisfiable
- sw100-8-lp5-c5: 100 vertices, 400 edges, p=2^-5 - 100 instances, all satisfiable
- sw100-8-lp6-c5: 100 vertices, 400 edges, p=2^-6 - 100 instances, all satisfiable
- sw100-8-lp7-c5: 100 vertices, 400 edges, p=2^-7 - 100 instances, all satisfiable
- sw100-8-lp8-c5: 100 vertices, 400 edges, p=2^-8 - 100 instances, all satisfiable
- sw100-8-p0-c5: 100 vertices, 400 edges, p=0 - 1 instance, satisfiable

Planning

Blocksworld

Lien description :
https://www.cs.ubc.ca/~hoos/SATLIB/Benchmarks/SAT/PLANNING/BlocksWorld/descr.html

blocksworld: 7 instances, all satisfiable

Logistics

Lien description : https://www.cs.ubc.ca/~hoos/SATLIB/Benchmarks/SAT/PLANNING/Logistics/descr.html

logistics: 3 instances, all satisfiable

All Intervall Series

Lien description : https://www.cs.ubc.ca/~hoos/SATLIB/Benchmarks/SAT/AIS/descr.html

ais: 4 instances, all satisfiable

SAT-encoded Quasigroup (or Latin square) instances

Lien description : https://www.cs.ubc.ca/~hoos/SATLIB/Benchmarks/SAT/QG/qg.descr.html

qg: 22 instances

SAT-encoded bounded model checking intances

Lien description : https://www.cs.ubc.ca/~hoos/SATLIB/Benchmarks/SAT/BMC/description.html

bmc: 13 instances

DIMACS Benchmark Instances

Large SAT-encoded Graph Colouring problems

GCP: Large SAT-encoded Graph Colouring problems - 4 instances, all satisfiable description (html)

Instances for problem in learning the parity function

PARITY: Instances for problem in learning the parity function - 20 instances, all satisfiable description (html)

Instances from a problem in inductive inference

II: Instances from a problem in inductive inference - 41 instances, all satisfiable description (html)

SAT-encoding of Towers of Hanoi

HANOI: SAT-encoding of Towers of Hanoi - 2 instances, all satisfiable description (html)

Circuit fault analysis: bridge fault

BF: Circuit fault analysis: bridge fault - 4 instances, all unsatisfiable description (html)

Circuit fault analysis: single-stuck-at fault

SSA: Circuit fault analysis: single-stuck-at fault - 4 instances satisfiable, 4 instances unsatisfiable description (html)

Pigeon hole problem

PHOLE: Pigeon hole problem - 5 instances, all unsatisfiable description (html)

Encoded 2-colouring forced to be unsatisfiable

PRET: Encoded 2-colouring forced to be unsatisfiable - 8 instances, all unsatisfiable description (html)

Note à moi-même : « forced to be unsatisfiable » comme si l'idée que ce soit irrésoluble fasse partie des buts