* Please accept our apologies for cross-posting **

** It would be highly appreciated if you could disseminate this CFB among your colleagues **

Call for Benchmarks and Participation

The 6th International Model Counting Competition (MC 2025)

http://mccompetition.org/2025/mc_description

Model counting enables propositional satisfiability to be used for quantitative reasoning tasks, including probabilistic questions. The competition aims to evaluate available solvers to various problems and set new standards; identify new challenging benchmarks; and to promote solvers for quantitative reasoning problems.

Submission Invitation
We invite submissions of benchmark sets and solvers in the tracks named below.
Numbers and letters for track names are intentionally omitted to be consistent with previous years.

Main Tracks:

- Track 1: Model Counting (MC)
- Track 3: Projected Model Counting (PMC)
- Track 4: Projected Weighted Model Counting (PWMC)

Instance format (1-4): DIMACS-like CNF format [1].

Bonus Tracks:
This year we will experiment with a new set of tracks to explore future applications.

- Track 5B: Algebraic Model Counting (AMC): Specific Field (tbd)
- Track 6B: Bitvector Counting

The bonus tracks will be experimental and be run in collaboration with the solver developers.
Instance format: Track 5: tbd, Track 6: SMT format.

Rankings will be
- A. Exact (arbitrary precision)
- C. Approximate (provide approximation guarantee)
- D. Heuristic

Benchmark Submission

- Categories: Application-based, Generated, or Random instances.
- Recommended: Submit benchmarks as datasets on Zenodo.
- Benchmarks will become publicly accessible after the event.

Solver Submission

- Evaluation platform will be declared shortly (StarExec is decommissioned in 2025).
- Submission requirements guidelines available at [2].

Results Presentation Results will be presented at the SAT 2025 conference (tentatively).

Important Dates

- Benchmarks submission deadline: April 18, 2025
- Solvers submission deadline: May 30, 2025

[1] https://mccompetition.org/assets/files/mccomp_format_24.pdf
[2] https://mccompetition.org/