

Institute for Symbolic Artificial Intelligence / Formal Models & Verification

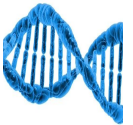


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Possible Directions (Selection)

- **Encodings:** Translate an application problem into logic and solve it
Games, Planning, Scheduling, Synthesis, Verification, ...
- **Solving:** Implement new solving technology and make it faster
SAT, QBF, SMT
- **Certification & benchmarking:** Increase trust in solving result
Generation of proofs and proof checking, solver testing
- **Logic Education:** Make logic easier accessible
Training tools, educational games

...



(Selection of) Possible Concrete Topics

- Analysis of Differences Between Time Tracking APIs
- Slurm Cluster Load Visualizer
- Exact Cover Problem SAT (CNF) Encoding
- Improved (AI-Based) SAT and QBF Splitting Heuristics
- Transforming Logic Tools into the Browser: Next Steps for Limboole
- Survey and Development on How-To Improve AI Deployment as Binaries. From the Notebook to the Solver!



Questions?

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