

raSAT – an SMT Solver for Polynomial Constraints

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- raSAT: ICP + Testing + Intermediate Value Theorem (IVT).
 - Inequality*
 - Equality*
 - ✓ ICP: Interval Constraint Propagation = Interval Arithmetic + Constraint Propagation + Box Decomposition.
 - ✓ Testing to boost SAT detection of inequality.
 - ✓ Generalized IVT for (non-constructive) SAT detection of equality.
- Sound, but incomplete.
 - ✓ Outward rounding (ICP), confirmation by iRRAM (testing)

Download: <http://www.jaist.ac.jp/~s1310007/raSAT/>, or google “raSAT SMT”