

Keyword Index

algebraic extensions	88
algebraic proof systems	33
algorithms	77
autocorrelation	1
automatic proof checking	61
autonomous driving	95
boolean polynomials	33
CoCoA and MathSAT	88
computer algebra	61
constraint solving	95
constraint systems	95
cylindrical algebraic decomposition	3, 19
D-optimal designs	1
decision procedures	110
economic reasoning	48
equational constraints	19
factorization	88
Gröbner basis	61, 88
Hadamard matrices	1
incremental	3
interval arithmetics	88
interval propagation	110
knot theory	77
linear clauses	33
logic	77
Maple	118
multiplier verification	61
natural-style proofs	122
non-linear arithmetic	110
non-linear real arithmetic	48
polynomial calculus	61

quantifier elimination	48, 110
real algebraic geometry	77
real roots	88
SAT solving	33
satisfiability checking	122
satisfiability modulo theories	48
SATsolvers	1
SMT	3, 110, 118
SMT solving	19, 77
SMTLIB	118
symbolic computation	77, 122
traffic scenarios	95