

QUANTIFIER ELIMINATION AND CYLINDRICAL ALGEBRAIC DECOMPOSITION%0A

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Quantifier Elimination and Cylindrical Algebraic Decomposition

George Collins discovery of Cylindrical Algebraic Decomposition (CAD) as a method for Quantifier Elimination (QE) for the elementary theory of real closed fields brought a major breakthrough in

Quantifier Elimination and Cylindrical Algebraic ...

George Collins discovery of Cylindrical Algebraic Decomposition (CAD) as a method for Quantifier Elimination (QE) for the elementary theory of real closed fields brought a major breakthrough in automating mathematics with recent important applications in high-tech areas (e.g. robot motion), also

Quantifier elimination by cylindrical algebraic ...

A quantifier elimination algorithm by cylindrical algebraic decomposition based on regular chains is presented. The main idea is to refine a complex cylindrical tree until the signs of polynomials appearing in the tree are sufficient to distinguish the true and false cells.

Partial Cylindrical Algebraic Decomposition for Quantifier ...

Cylindrical Algebraic Decomposition (CAD) by Collins (1975) provides a potentially power- fill method for solution of many important mathematical problems by means of quantifier elimination, provided that the required amount of computation can be sufficiently redu-

Implementing the cylindrical algebraic decomposition ...

Collins, G. E. (1975) Quantifier Elimination for the Elementary Theory of Real Closed Fields by Cylindrical Algebraic Decomposition. Springer-Verlag Lecture Notes in Computer Science 33 134-183 . Collins , G. E. and Hong , H. (1991) Partial Cylindrical Algebraic Decomposition for Quantifier Elimination .

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Quantifier Elimination by Cylindrical Algebraic Decomposition Based on Regular Chains Changbo Chen Chongqing Key Laboratory of Automated Reasoning and Cognition, Chongqing Institute of

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Quantifier elimination and cylindrical algebraic ...

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fields of interest or study.

Quantifier Elimination by Cylindrical Algebraic ...

Cylindrical Algebraic Decomposition (CAD) of \mathbb{R}^n . A CAD of \mathbb{R}^n is a partition of \mathbb{R}^n such that each cell in the partition is a connected semi-algebraic subset of \mathbb{R}^n and all the cells are cylindrically

Partial Cylindrical Algebraic Decomposition for Quantifier ...

Cylindrical Algebraic Decomposition (CAD) by Collins (1975) provides a potentially powerful method for solution of many important mathematical problems by means of quantifier elimination, provided that the required amount of

Quantifier Elimination by Cylindrical Algebraic ...

Abstract. The CAD (cylindrical algebraic decomposition) method and its application to QE (quantifier elimination) for ERA (elementary real algebra) was announced by the author in 1973 at Carnegie Mellon University (Collins 1973b).

Quantifier elimination and cylindrical algebraic ...

George Collins' discovery of Cylindrical Algebraic Decomposition (CAD) as a method for Quantifier Elimination (QE) for the elementary theory of real closed fields brought a major breakthrough in automating mathematics with recent important applications in high-tech areas (e.g. robot motion), also stimulating fundamental research in computer

Quantifier elimination for real closed fields by ...

In the application of cylindrical algebraic decomposition to quantifier elimination, we assume that we are given a quantified formula in prenex form, and we take \mathcal{A} to be the set of all

Quantifier Elimination for Real Closed Fields by ...

This is a brief summary and exposition of the paper "Quantifier Elimination for Real Closed Fields by Cylindrical Algebraic Decomposition," which was presented at the Second GI Conference on