论文

# A METHOD FOR MECHANICAL GEOMETRY THEOREM PROVING

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摘要 A method for mechanical geometry theorem proving is presented. By using this method, if the ascending chains derived via Wu-Ritt's well ordering algorithm satisfy a condition, all the irreducible characteristic sets we need can be obtained at the same time, and the general case can be reduced to this special case. Thus whether a geometry theorem is generally true can be decided.

关键词 <u>Wu-Ritt well ordering algorithm, prime i</u>

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**Abstract** A method for mechanical geometry theorem proving is presented. By using this method, if the ascending chains derived via Wu-Ritt's well ordering algorithm satisfy a condition, all the irreducible characteristic sets we need can be obtained at the same time, and the general case can be reduced to this special case. Thus whether a geometry theorem is generally true can be decided.

Key words <u>Wu-Ritt well ordering algorithm</u> <u>prime ideals</u> <u>irreducible characteristic sets</u>

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