

Equality handling and efficiency improvement of SMT for non-linear constraints over reals

By VU XUAN TUNG

A thesis submitted to
School of Information Science,
Japan Advanced Institute of Science and Technology,
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Written under the direction of
Professor Mizuhito Ogawa

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Professor Takuya Katayama
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Abstract

Chapter 1

Introduction

Chapter 2

Over-Approximation and Under-Approximation for Polynomials

This section presents Interval Arithmetic as an over-approximation theory, and testing as an under-approximation theory.