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,
in partial fulfillment of the requirements
for the degree of
Master of Information Science
Graduate Program in Information Science

Written under the direction of Professor Mizuhito Ogawa

March, 2003

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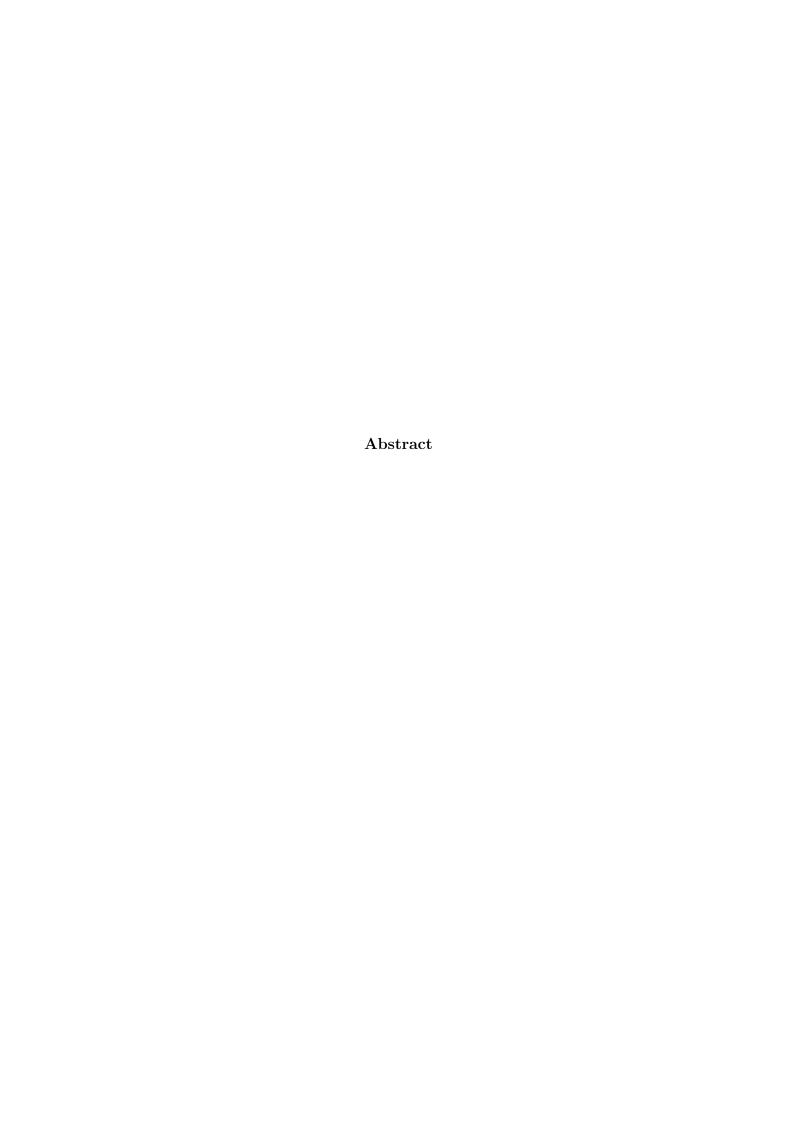
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Chapter 1 Introduction

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.