



CENTER FOR  
MACHINE PERCEPTION



CZECH TECHNICAL  
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BACHELOR THESIS

# Minimal Problem Solver Generator

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Available at  
<http://cmp.felk.cvut.cz/~trutmpav/theses/bsc-pavel-trutman.pdf>

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Text of acknowledgements. . .

# Abstract

Text of abstract...

## Resumé

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## Abbreviations

AHA! Some optional explanation before the list. Indentation can be set by the command `\setlength{\AbbrevIndent}{5em}`.

1D	one dimension(al)
2D, 3D, ...	two dimension(al), three dimension(al), two dimension(al), three dimension(al), two dimension(al), three dimension(al), two dimension(al), three dimension(al), ...
AAM	active appearance model
AI	artificial intelligence
ASM	active shape model
B-rep	boundary representation
BBN	Bayesian belief networks

# 1 Introduction

Here comes introduction.

## **2 Polynomial system solving**

### **2.1 Buchberger's Algorithm**

### **2.2 F4 Algorithm**

### **2.3 F5 Algorithm**

## **3 Automatic generator**

### **3.1 Reimplementation**

### **3.2 Multiple eliminations solver**

### **3.3 Removing unnecessary polynomials**

### **3.4 Matrix partitioning**

### **3.5 F4 strategy**

## 4 Experiments

## 5 Conclusion