INSTITUTO SUPERIOR TÉCNICO
Universidade Técnica de Lisboa

Título da Dissertação

Subtítulo (facultativo)

Nome Completo do Candidato

Dissertação para a obtenção de Grau de Mestre em

Engenharia Aeroespacial

Júri

Presidente:	Nome do Presidente
Orientador:	Nome do Orientador
Co-orientador:	Nome do Co-orientador
Vogais:	Nome do Vogal 1
	Nome do Vogal 2
	Nome do Vogal 3

Mês e Ano

Dedicated to someone special...

Acknowledgments

A few words about the university, financial support, research advisor, dissertation readers, faculty or other professors, lab mates, other friends and family...

Resumo

Inserir o resumo em Português aqui com o máximo de 250 palavras e acompanhado de 4 a 6 palavras-chave...

Palavras-chave: palavra-chave1, palavra-chave2,...

Abstract

Insert your abstract here with a maximum of 250 words, followed by 4 to 6 keywords...

Keywords: keyword1, keyword2,...

Contents

List of Tables

List of Figures

Chapter 1

Introduction

Insert your chapter material here...

1.1 Motivation

Relevance of the subject...

1.2 State-of-the-art

Insert your section material with the appropriate citations. These can be cited in the following way:

Citation mode #1 - **?**
Citation mode #2 - **?**
Citation mode #3 - [**?**]
Citation mode #4 - **?**
Citation mode #5 - [**?**]
Citation mode #6 - **?**
Citation mode #7 - **?**
Citation mode #8 - **?**
Citation mode #9 - **?**
Citation mode #10 - [**?**]

1.2.1 Tables

Insert your subsection material and for instance a few tables...

item 1	item 2
item 3	item 4

Table 1.1: Table caption

Make reference to Table 1.1.

Model	C_L	C_D	C_{My}
Euler	0.083	0.021	-0.110
Navier–Stokes	0.078	0.023	-0.101

Table 1.2: Aerodynamic coefficients.

Here is an example of a table with merging columns:

	Virtual memory [MB]	
	Euler	Navier–Stokes
Wing only	1,000	2,000
Aircraft	5,000	10,000
(ratio)	$5.0\times$	$5.0\times$

Table 1.3: Memory usage comparison (in MB).

1.2.2 Drawings

Insert your subsection material and for instance a few drawings...

The schematic illustrated in Fig. 1.1 can represent some sort of algorithm.

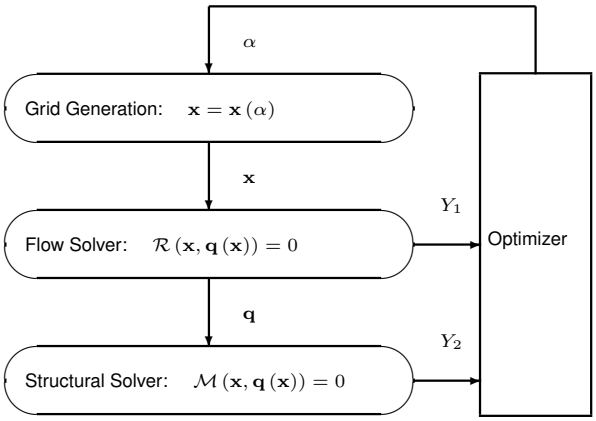

Figure 1.1: Schematic of some algorithm.

Chapter 2

Results

Insert your chapter material here, much like in 1

2.1 Figures

Insert your section material and possibly a few figures...

Figure 2.1: Caption for figure.

Make reference to Figure 2.1.

(a) Airbus A320

(b) Bombardier CRJ200

Figure 2.2: Aircrafts.

By default, the supported file types are *.png,.pdf,.jpg,.mps,.jpeg,.PNG,.PDF,.JPG,.JPEG*.

See `http://mactex-wiki.tug.org/wiki/index.php/Graphics_inclusion` for adding support to other extensions.

2.2 Equations

Equations can be inserted in different ways.

The simplest way is in a separate line like this

$$\frac{\mathrm{d}q_{ijk}}{\mathrm{d}t} + \mathcal{R}_{ijk}(\mathbf{q}) = 0\,. \tag{2.1}$$

If the equation is to be embedded in the text. One can do it like this $\partial\mathcal{R}/\partial\mathbf{q} = 0$.

It may also be split in different lines like this

$$\begin{aligned} \text{Minimize} \quad & Y(\alpha, \mathbf{q}(\alpha)) \\ \text{w.r.t.} \quad & \alpha\,, \\ \text{subject to} \quad & \mathcal{R}(\alpha, \mathbf{q}(\alpha)) = 0 \\ & C(\alpha, \mathbf{q}(\alpha)) = 0\,. \end{aligned} \tag{2.2}$$

It is also possible to use subequations. Equations 2.3a, 2.3b and 2.3c form the Naver–Stokes equations 2.3.

$$\frac{\partial \rho}{\partial t} + \frac{\partial}{\partial x_j}\left(\rho u_j\right) = 0\,, \tag{2.3a}$$

$$\frac{\partial}{\partial t}\left(\rho u_i\right) + \frac{\partial}{\partial x_j}\left(\rho u_i u_j + p\delta_{ij} - \tau_{ji}\right) = 0, \quad i = 1, 2, 3\,, \tag{2.3b}$$

$$\frac{\partial}{\partial t}\left(\rho E\right) + \frac{\partial}{\partial x_j}\left(\rho E u_j + p u_j - u_i \tau_{ij} + q_j\right) = 0\,. \tag{2.3c}$$

Chapter 3

Conclusions

Insert your chapter material here...

3.1 Achievements

The major achievements of the present work...

3.2 Future Work

A few ideas for future work...

Appendix A

Vector calculus

In case an appendix if deemed necessary, the document cannot exceed a total of 100 pages...

Some definitions and vector identities are listed in the section below.

A.1 Vector identities

$$\nabla \times (\nabla \phi) = 0 \tag{A.1}$$

$$\nabla \cdot (\nabla \times \mathbf{u}) = 0 \tag{A.2}$$