## <Thesis Title>

# by

## <Full Name of PhD candidate>

A dissertation submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in

<Name of PhD Program>

Universidad Carlos III de Madrid

## Advisor(s):

<Advisor1 Full Name>

<Advisor2 Full Name>

Tutor:

<Tutor Full Name>

<Defense Month>

This thesis is distributed under license "Creative Commons **Atributtion - Non Commercial - Non Derivatives**".



Add your dedication here.

## **ACKNOWLEDGEMENTS**

Add acknowledgements here.

#### PUBLISHED AND SUBMITTED CONTENT

- Include a bibliography of articles or other contributions you have (co)authored that are included as part of the thesis and that
  - have been published (describe your role; citations must include DOIs or publisher URLs if available electronically);
  - have been submitted for publication (describe your role; citations must include URLs if available electronically);
  - have been submitted for a degree or any other qualification at UC3M or any other institution (describe degree or qualification, institution, and year of completion).

#### • For each item

- State whether the item is partly or wholly included in the Thesis;
- Indicate the chapter or chapters where material from this item is included;
- Optional statement: "The inclusion in the thesis of material from this source is specified in a footnote to each chapter where an inclusion occurs."
- Choose one of the following statements:
  - \* The material from this source included in this thesis is not singled out with typographic means and references.
  - \* Whenever material from this source is included in this thesis, it is singled out with typographic means and an explicit reference.
- If you are incorporating any third-party material in the thesis, including works that you have authored/co-authored but for which you have transferred copyright, you must indicate that permission has been secured to use the material. For example: Fig. 2 reprinted with permission from the copyright holder, HolderName

Please, notice: If you want to include other research merits, including published content and contributions which are not included in the Thesis, you should do that in the next page.

If no material from published or submitted contributions is included in this thesis, do not include this page.

### **OTHER RESEARCH MERITS**

Include a list of research merits other than the published articles or other contributions in the Published Content and Contributions section.

If you do not wish to single out any other research merits, do not include this page.

## **CONTENTS**

1	INTRODUCTION.																								
Ι.	INTRUDUCTION.	 	_		_	_	_	 	_	_	_	 	_	_	_	 	 _	_	_	_	_	_	_	_	

## LIST OF FIGURES

## LIST OF TABLES

## 1. INTRODUCTION