UAV Obstacle collision avoidance system

 $Subsystem\ integration\ for\ safer\ autonomous\ flights$

By

ÁLVARO MELGOSA PASCUAL



Department of Bioengineering and Aerospace Engineering UNIVERSIDAD CARLOS III DE MADRID

SEPTEMBER 2016

ABSTRACT

Free goes the abstract

DEDICATION AND ACKNOWLEDGEMENTS

ere goes the dedication.

TABLE OF CONTENTS

	1	Page
	Abstract	ii
	Dedication and Acknowledgements	iv
	Table of Contents	v
	List of Figures	vii
	List of Tables	ix
1		1
	1.1 Section	1
	1.1.1 Subsection	1
A	Appendix A	3
Bi	ibliography	5

LIST OF FIGURES

Fig	URE	Pag	ţе
1.1	Developmental zones of an Arabidopsis root		1

LIST OF TABLES

TABLE Page

CHAPTER

INTRODUCTION

P egins a chapter.

APPENDIX

APPENDIX A

P egins an appendix

BIBLIOGRAPHY

[GS02] C. Grierson and J. Schiefelbein.

 $The\ Arabidopsis\ Book.$

American Society of Plant Biologist, 2002.

[JS06] M. Jones and N. Smirnoff.

Nuclear dynamics during the simultaneous and sustained tip growth of multiple root hairs arising from a single root epidermal cell.

J. of Exp. Bot., 57(15):4269-4275, 2006.

[MS94] J. D. Masucci and J. W. Schiefelbein.

The rhd6 mutation of arabidopsis thaliana alters root-hair initiation trhough an auxin- and ethylene-associated process.

Plant. Physiol., 106:1335-1346, 1994.

[PG09] R.J.H. Payne and C.S. Grierson.

A theoretical model for rop localisation by auxin in arabidopsis root hair cells.

PLoS ONE, 4(12):e8337. doi:10.1371/journal.pone.0008337, 2009.

[RDH⁺01] S. Rigas, G. Debrosses, K. Haralampidis, F. Vicente-Angulo, K. A. Feldman, A. Grabov, L. Dolan, and P. Hatzpoulos.

Trh1 encondes a potassium transporter required for tip growth in arabidopsis root hairs.

The Plant Cell, 13:139-151, 2001.