

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name	<b>PEDRO MIGUEL FIGUEIREDO AMARAL</b>
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Nationality	Portuguese
Date of birth	25/03/1978

## PROFESSIONAL EXPERIENCE

From April 2006 (current position)

**Teaching Assistant** in the Electric Engineering Department of the Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa. Main activities include teaching in two telecommunication courses - Introduction to Telecommunications and Telecommunication Systems and performing research in Internet architecture, routing, traffic engineering and QOs, network management and IMS systems.

From February 2005 – March 2006

**Systems Engineer** in Siemens Portugal S.A. Main activities included analysis and design of network scenarios, functional design of network management systems, and research and identification of new technologies in the telecommunications market.

From October 2002 – December 2004

**Invited Teaching Assistant** in the Electric Engineering Department of the Faculty of Sciences and Technology - New University of Lisbon. Main activities included teaching in two digital systems courses - Logical Systems I and Logical Systems II and performing research in computer network security and software agents.

From November 2002 – February 2005

**Student Researcher** at UNINOVA – Institute for the development of new technologies. Worked in the Almada Digital City and PRIME/SARP projects.

From January 2002 – October 2002

**Telecommunications Engineer** at PT-Prime S.A. Implementing, maintaining and managing large Enterprise computer networks.

From October 2001 – January 2002

**Project Engineer** at Chipidea Microelectronics S.A. Where I participated in a project of an Analog microelectronic signal processor

## EDUCATION

Started 2008 – (Currently)

**Ph.D. Candidate in Telecommunications Engineering** in Faculty of Sciences and Technology - New University of Lisbon

2003 - 2006

**Master in Computer Science** at Faculty of Sciences and Technology - New University of Lisbon with the final grade of "Very Good" (Highest grade)

1996 – 2001

**Licenciatura (5 year Degree) in Electrical Engineering** at Faculty of Sciences and Technology - New University of Lisbon with the final grade of 15 (from a maximum of 20).

## RESEARCH

(PUBLICATION LIST)

**Scalable Multi Region Routing at Interdomain Level** – Amaral, Pedro and Ganhão, Francisco and Assunção Claudio and Bernardo, Luis and Pinto, Paulo – IEE Globecom 2009, 30 December -4 November 2009, Honolulu, USA.

**DTIA An Architecture for Interdomain Routing** – Amaral, Pedro and Bernardo, Luis and Pinto, Paulo – IEE ICC 2009, 14-19 June 2009, Dresden Germany

**Interdomain Routing Using Topology Information** – Amaral, Pedro and Bernardo, Luis and Pinto, Paulo – ACM CoNEXT Student Workshop 2008, 9 December 2008, Madrid, Spain.

**SIDSP: Simple Interdomain QoS Signaling Protocol** – Pinto, Paulo and Santos, António and Amaral, Pedro and Bernardo, Luís – IEEE 2007 Military Communications Conference (MILCOM'07), 29-31 October 2007, Orlando, USA.

**Distributed Secure communication System Using Agents** – Pedro Amaral, Master Thesis presented in Faculty of Sciences and Technology - New University of Lisbon, 2006

**A Multi-Agent System's Approach to Communication Security in the Web** – Pimentão, João P. and Sousa, Pedro A.C. and Amaral, Pedro and Steiger-Garção, Adolfo – IEEE/WIC/ACM International Conference on Web Intelligence, Beijing, China, ISBN 07695-2100-2, pg 706-710, September 2004

**Agent Based Communication Security, in Multi-Agent Systems Technologies** – Pimentão, João P. and Sousa, Pedro A.C. and Amaral, Pedro and Steiger-Garção, Adolfo – Lecture Notes on Artificial Intelligence , Volume 3187, proceedings of MATES 2004, Erfurt , Germany ISBN 3-540-23222-2 pg 73-84, September 2004

**An Improved Low-Voltage Low-Power CMOS comparator to be used in high-speed pipeline ADCs** – Amaral. Pedro and Goes, João and Paulino, Nuno and Steiger-Garção, Adolfo - Circuits and systems 2002. ISCAS 2002. IEEE International Symposium on, Vol. 5, Iss 2002, Pages 141,144 vol. 5

## OTHER COURSES

2002

**Interconnecting Cisco Network Devices** at the RUMOS formation academy.

## PERSONAL SKILLS

MAIN LANGUAGE

PORTUGUESE

OTHER LANGUAGES

**English** – Excellent

**Spanish** – Basic

**French** – Basic

COMPUTING SKILLS

**Programming Languages:** JAVA, C, C++, Delphi, Assembly

**Scripting Languages:** AWK, Bash

**Publishing Software:** Microsoft Office, OpenOffice, LaTeX

**Operating Systems:** GNU/Linux, Microsoft Windows, Mac OS X

**Databases:** Basic knowledge of SQL

**Web Languages:** HTML, CSS

## TECHNICAL SKILLS

**Configuration of Cisco Network Devices:** Cisco IOS language.

**Configuration of Juniper Network Devices:** Junos language