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Education:

- PhD (2002) in Electrical and Computer Engineering at Instituto Superior Técnico (IST), in Lisbon, Portugal
- MSc (1996) in Electrical and Computer Engineering at IST
- Licenciatura (1993) in Electrical and Computer Engineering at IST (a 5-year degree)

Appointments:

- Assistant Professor at the Department of Electrical and Computer Engineering of IST since August 2002 (Systems and Control; Computer Systems)
- Assistant lecturer at the Department of Electrical and Computer Engineering of IST from March 1995 to July 2002 (Computer Systems)
- Researcher at the signal processing group of the Institute for Systems and Robotics (ISR), in Lisbon, since January 1993

Honors:

- Grantee from the Portuguese National Science Foundation (FCT) from January 1994 to February 1995 (MSc studies)
- Award as best-performing graduating engineering student at IST in 1993

Professional activities:

- Treasurer of the 2004 IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC'04)
- Member of the technical committees in several international conferences: 2004 IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC'2004), Lisbon, Portugal, July 2004; 8th European Conference on Underwater Acoustics (ECUA'2006), Carvoeiro, Portugal, 12-15 June 2006; 1st ACM International Workshop on Underwater Networks (WUWNet'06), Los Angeles, USA, 25 September 2006; IEEE/OES Oceans'07 - Europe Conference, Aberdeen, Scotland, 18-21 June 2007; 2nd ACM International Workshop on Underwater Networks (WUWNet'07), Montreal, Canada, 14 September 2007; International Workshop on Underwater Sensors and Systems (UNWAT'07), Valencia, Spain, 14-20 October 2007; 3rd ACM International Workshop on Underwater Networks (WUWNet'08), San Francisco, USA, 15 September 2008.

- Reviewer for several international journals: IEEE Transactions on Signal Processing; IEEE Signal Processing Letters; IEEE Transactions on Communications; IEEE Journal on Selected Areas in Communications; IEEE Transactions on Multimedia; IEEE Journal of Oceanic Engineering; Journal of the Acoustical Society of America; IEE/IET Electronics Letters

Selected participations in projects:

- URBISNET (PT FCT 2010-): Project leader; Urban pollution monitoring using a public transportation infrastructure for networked sensing
- PHITOM (PT FCT 2007-): Project leader; Underwater tomography using high-frequency acoustic communications signals
- GREX (EU 2006-): Team member; Participation in algorithm development for coordination of multiple autonomous underwater vehicles through acoustic communication
- ASIMOV (EU 1999-2002): Team member; development of software for a high-rate underwater acoustic modem

PhD Students:

- Supervisor of Ehsan Zamanizadeh, with a Thesis on underwater tomography using high-frequency acoustic communications signals. Started in August 2009, ongoing. Currently project grantee from FCT
- Supervisor of Pinar Oguz Ekim, with a Thesis on tracking and localization in sensor networks. Started in October 2007, ongoing. Currently PhD grantee from FCT
- Co-supervisor of António João Silva, with a Thesis entitled "Environmental based Underwater Communications". Concluded March 2009. Currently assistant professor at the University of Algarve, Portugal

Theses:

- MSc: "Blind equalization of digital communication channels: impact of fractional sampling and assessment of a non-linear algorithm using radial basis functions", November 1996. Supervised by Prof. Victor Barroso (IST)
- PhD: "Array processing methods for time-reversed underwater communication systems", July 2002. Supervised by Prof. Victor Barroso (IST)