

VITAE

Sérgio M.M. Jesus

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1 Personal

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2 Academic

2004 Habilitation (*Agregação*), IST-Technical University of Lisbon, Portugal
1986 Doctor of Engineering Science, Université de Nice, France
1983 DEA, Signal Processing and Automation, Université de Nice, France
1982 Maitrise, Electronics and Automation, Université de Nice, France
1980 DUT, Institut Universitaire de Technologie, Université de Nice, France

3 Employment

2007- Full Professor, University of Algarve, Faro, Portugal
2001- Tenure, University of Algarve, Faro, Portugal
1996-07 Associate Professor, University of Algarve, Faro, Portugal
1992-96 Assistant Professor, University of Algarve - Faro, Portugal
1988-92 Senior scientist, NATO SACLANT Undersea Research Centre, La Spezia, Italy
1985-88 Scientist, NATO SACLANT Undersea Research Centre, La Spezia, Italy
1983-85 Teaching Assistant, Université de Nice, Nice, France

4 Research

Dr. Jesus joined the NATO Underwater Research Centre (NURC) in La Spezia, Italy, where he worked as scientist from 1985 to 1992, in the areas of underwater acoustics ambient noise and early work on underwater acoustic source localization using matched-field processing. In 1992 he joined the Electrical Engineering and Computer Department of the University of Algarve in Faro, Portugal, where he continued to work on matched field processing extended to the inversion of bottom and water column parameters (ocean tomography) using both controlled and uncontrolled sources (ship noise). In the last ten years his activity has embraced also underwater acoustic communications and underwater vehicles networking. Over the years he participated in 15 national, 6 European and 2 international research projects, 9 of which under his coordination including the coordination of 3 European projects, one under program MAST2 (1993-1996) and two under FP7 (2008-2012). He has supervised or supervises a number of PhD candidates, 7 of which have completed their degree. In 1993 he has founded the Signal Processing Laboratory (SiPLAB) which is part of LARSys - Laboratory for Systems and Robotics at IST in Lisbon, and his research is regularly evaluated through FCT (the Portuguese research Foundation for Science and Technology). He is the author or co-author of more than 200 scientific contributions among which, over 30 international peer reviewed journal papers, 36 internal reports or syllabus for both under graduate and graduate courses, 120 plus conference papers with proceedings, a number of invited presentations with and without proceedings, and he is the co-editor of 3 books.

5 Other scientific, administrative and academic activities

Dr. Jesus served as Associate Editor of IEEE Trans. on Signal Processing between 1998 and 2002 and acts as reviewer of the Journal of Acoustical Society of America, IEEE Journal of Oceanic Engineering, ICASSP and others. He is permanent member of the scientific committee of the European Conference on Underwater Acoustics (ECUA) and has chaired sessions in a number of international scientific conferences (OCEANS, ECUA, ICTCA, etc.). He has chaired in several project evaluation boards in Portugal and in the EU. He has organized or co-organized three international conferences. He has participated and organized a number of scientific field experiments at sea since 1988 throughout the different positions both at NURC and at the University of Algarve as project leader.

Dr. Jesus has also been serving as General Director (1998-2008) and as President of the Administration Board of CINTAL (2008-2013), a Center of Technological Research in Faro (Portugal), as Head of the Department of Electrical Engineering and Computer Department for two terms, (1999-2001) and (2003-2005) and as vice-director of the Faculty of Science and Technology at the University of Algarve (Faro), Portugal, also for two terms (1993-1995) and (2003-2005). Dr. Jesus served as Vice-Rector for Research at the University of Algarve (2009-2013), overseeing the research activities and programs of over 1000 researchers and 2000 post-graduate students in 19 research centers.

Since 1992, he is responsible for a number of teaching courses such as Signals and Systems, Circuit Analysis, Communication Systems, Digital Communications, Digital Signal Processing, Signal Processing in Mobile Networks, Spectral Estimation and Statistical Signal Processing.

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[A.] Journal papers:

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- [A5] S. JESUS, "Broadband matched-field processing of transient signals in shallow water", *Journal of the Acoustical Society of America*, vol.93(4), Pt.1, p. 1841-1850, 1993, (doi:10.1121/1.406699).
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