

Curriculum Vitae (Oct 2011)



NAME
DOS SANTOS Serge
DOB : 18/02/1971

POSITION TITLE (Dr.)
Assistant Professor (HDR) -ENI Val de Loire, CNU section: 61
INSERM U930 Imagerie et Cerveau -ERL 3106 CNRS,
[University François Rabelais](#), Tours, FRANCE

EDUCATION TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR (s)	FIELD OF STUDY
University of Bourgogne – Dijon –France	B. eng.	1993-1994	Applied Physics
University of Bourgogne – Dijon –France	M. Sc.	1994-1995	Nonlinear Physics
University of Franche-Comté–CNRS Besançon, France	Ph.D.	1995-1998	Engineering Sciences
University François Rabelais of Tours, France	Post Doc	1998-1999	Nonlinear Systems Signal processing

RESEARCH AND PROFESSIONAL EXPERIENCE

POSITIONS :

- 1999 – 2006** Assistant Professor (MCF61) at the EIVL-[University](#) of Tours, FRANCE
2005 – 2006 Sabbatical Research Period (CRCT61) at [Artann laboratories](#), Trenton-NJ (USA) and [Stevens Institute](#), Hoboken-NJ (USA) in collaboration with the [CNRS](#).
2006-now Assistant Professor (MCF [HDR](#)) at the [ENI Val de Loire](#), Blois FRANCE

RESEARCH ACTIVITIES :

- [Nonlinear Acoustics \(NEWS\)](#) for Nondestructive Testing of Complex Medium
 - 6th European Program Aeronautics And Space AST-CT-2003-502927: [AERONEWS](#)
 - Full Member (44 Members) of the [Academia NDT International](#) (ECNDT Moscow 2010)
- [Advanced Signal Processing](#) for Analysis of Nonlinear and [Complex Systems](#)
 - Nonlinear Physics, Nonlinear Acoustics – [Materials with hysteretic and memory effects](#)
 - [Instrumentation, 1/f Noise and Nonlinear Electronics](#)

VISITING PERIODS :

Year	Contract	Institution	Country	Subject
2005	Invited period	ARTANN Labs	Trenton - USA	NL-TRA
2006	Invited period	Nottingham Univ.	UK	acousto-optics NL
2006	Working week 1/2	Katholieke Univ.	Belgium	TR-NEWS
2006	Working week 1/2	CENS	Estonia	NDT and Solitons
2007	Working week 1/2	Exeter University	UK	Sweep TR-NEWS
2007	Working week 1/2	VZLU	Czech Rep	Sweep TR-NEWS
2007	Working week 1/2	ARTANN Labs	Trenton - USA	Sweep NL-TRA
2011	Invited period	IGIC-UPV	Gandia – Spain	TR-NEWS and UCA

TEACHING, COURSE MATERIALS AND PROMOTING OF KNOWLEDGE (detailed in [HDR](#))

Student Advising (Master :9): 87 students; Educational Activities (Undergraduate and Graduate Teaching) : 13 lectures in 6 Universities (246h/year); Ph. D. Thesis Examiner : 4 PhD;
Professional Affiliations, Activities and Services: 5; Organisation of Seminars: 9 ; Organisation of National and international conferences and events: 5 ; Chairman: 6; Reviewer: 18 ;
Administrative Responsibilities: 11 : International Advisory Board : 1 ([Eliko Comp. Center](#))

PUBLICATIONS : Total number of references: 102; [H-index 2011: 4](#); Number of co-authors: 50; Publications in international journals: 16; Invited conferences with publications: 6; International and National proceedings: 62; Reports and Seminar: 18.

MAJOR PUBLICATIONS :

- [1] **S. Dos Santos** and Z. Prevorovsky, [Imaging of human tooth using ultrasound based chirp-coded nonlinear time reversal acoustics](#), *Ultrasonics*, 51, pp. 667-674" (2011)
- [2] **S. Dos Santos**, S. Vejvodova, and Z. Prevorovsky, [Nonlinear signal processing for ultrasonic imaging of material complexity](#), *Proceedings of the Estonian Academy of Sciences*, **59**, 2, 108–117 (2010)
- [3] **S. Dos Santos** and C. Plag, [Excitation symmetry analysis method \(ESAM\) for calculation of higher order nonlinearities](#), *International Journal of Non-Linear Mechanics*, **43** :164–169, 2008.
- [4] T. Goursolle, **S. Dos Santos**, O. Bou Matar, and S. Callé. [Nonlinear based time reversal acoustic applied to crack detection : Simulations and experiments](#). *Int. J. Nonlinear Mech.*, **43** :170–177, 2008.
- [5] T. Goursolle, S. Callé, **S. Dos Santos**, and O. Bou Matar. [A two dimensional pseudospectral model for time reversal \(TR\) and nonlinear elastic wave spectroscopy \(NEWS\)](#). *J. Acoust. Soc. Am.*, **122**(6) :p. 3220, 2007.
- [6] M. Vila, F. Vander Meulen, **S. Dos Santos**, L. Haumesser and O. Bou Matar, [Contact phase modulation method for acoustic nonlinear parameter measurement in solid](#), *Ultrasonics*, **42**, p. 1061 –1065 (2004)