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Date of birth March 16, 1967
Citizenship Portuguese
Foreign languages (fluent) English, Spanish, Portuguese

	Situation
<i>Position</i>	Inria Research Associate (CR1), Inria team project DANTE
<i>Location</i>	Centre Inria Rhône-Alpes – École Normale Supérieure de Lyon LIP, 46 allée d'Italie, 69364 Lyon cedex 07. France
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Education and Business

Certificates

2010	ED Math-Info Fond., ENS Lyon	HDR : <i>Analyse temps-fréquence et modèles d'invariance d'échelle: Contribution à l'étude de systèmes complexes</i>
Ph. D		Ph.D (P. Flandrin, Dir.) : <i>Time-Scale Analysis</i>
1993	INPG (ENS Lyon)	MS of Digital Signal Processing
1990	INPG	Electrical and Computer Engineering degree
1990	ICPI Lyon	DUT of Electrical engineering
1987	IUT Lyon 1	

Professional activities

Since 1996	Instit. Nat. de Rech. en Informatique et Automatique	Research associate
2012	CRI Rhône-Alpes, team DANTE	
2005-2012	CRI Rhône-Alpes, team RESO	Leader 2010-2012
2003-2005	Inst. Sup. Tech. de Lisbon. Portugal	Invited researcher
1999-2003	CRI Rhône-Alpes, team IS2	
1996-1999	CRI Rocquencourt, team FRACTALES	
1994-1996	Rice University, DSP Lab. Houston (TX) USA	Post-doctoral fellow
1990-1993	Ecole Normale Supérieure de Lyon. France	Ph. D student

Teaching experience

since 2009	ENS Lyon - Master 2R Math-Info	Responsible for the theme <i>Models and Optimization for Emerging Infrastructures</i>
2011-2013	CPE Lyon (Grad. course)	Introduction to <i>Compressive sensing</i> (8 hrs)
2008-2011	ENS Lyon - Master 2R Math-Info	Course on <i>Models and Optimization for Emerging Infrastructures</i> (24 hrs)
2007	ENS Lyon - Master <i>Math-Info</i>	Course on <i>Protocols and stochastic processes</i> (12 hrs)
2001-2003	INPG-ENSERG	Lecturer on <i>Non-stationarity and Multiresolution Analysis</i> (20 hrs)
1997-2001	U. Nacional Autonoma de Mexico (Grad. course)	Lecturer on <i>Wavelets and Fractals</i> (40 hrs)
1998-1999	ENSEA, DEA TIS (MS)	Course on <i>Wavelets and Fractals</i> (12 hrs)
1997-1998	Ecole Centrale de Paris (Grad. course)	Course on <i>Wavelets and Fractals</i> (12 hrs)
1993-1995	ENS Lyon. France (MS), ATER	Electronics (64 hrs)
1990-1994	CPE Lyon (Grad. course), Assistant professor	Signal Processing (130 hrs)
1991-1994	IUT Elec. & Comp. Eng., Assistant professor	Mathematics (24 hrs)
1990-1991	Ecole Préparatoire Chartreux Lyon, Examiner	Physics, Electronics, Optics (24 hrs)

(Total ~ 1000 hrs)

Scientific activities

Research teams

- Computer Science* Dynamic resource management in cloud environments [S. Roy, Ph. D 2013]
Content- and user-based classification in peer-to-peer networks [M. Sokol, Ph. D 2013]
Virtual infrastructures and networking [F. Anhalt, Ph. D 2011, G. Koslovski, Ph. D 2011]
Scale invariance properties in network traffic [P. Loiseau, Ph. D 2010]
- Signal Processing* Graph oriented signal processing [B. Girault, Ph. D 2015]
Machine learning applied to remote sensing [H. Carrão, Ph. D 2009]
Mutifractal analysis. Application to heart beat rate variability
Time-frequency and time-scale analysis [J. Gosme, Ph. D 2004]. Wavelets.
Empirical Mode Decomposition.
Compressive sensing. Application to traffic matrix estimation.

Ph. D supervision

- Direction* **S. Roy**, *Large deviations methods for dynamic resource management in clouds*, (with T. Begin). ENS Lyon, 2010-2013.
G. Koslovski, *Dynamically provisioned virtual computing and communication infrastructures : specification, allocation and execution process*, (with P. Vicat-Blanc). ENS Lyon, 2008-2011.
F. Anhalt, *Virtualisation des équipements réseau : Partage des ressources, performance et applications*, (with P. Vicat-Blanc). ENS Lyon, 2008-2011.
P. Loiseau, *Contributions to the Analysis of Scaling Laws and Quality of Service in Networks: Experimental and Theoretical Aspects*, (with P. Vicat-Blanc). ENS Lyon, 2006-2009.
- Co-direction* **B. Girault**, *Diffusion processes on dynamic graphs*, (E. Fleury Dir.). ENS Lyon, 2012-2015.
M. Sokol, *Clustering and Learning Techniques for Traffic / User Classification*, (Ph. Nain, Dir.). U. of Nice, 2009-2013.
H. Carrão, *Land Cover Classification using multi-temporal MODIS and MERIS satellite images*, (M. Caetano Dir.). U. of Lisbonne (Portugal), 2005-2009.
J. Gosme, *Adaptive diffusion schemes for time-frequency and time-scale representations*, (C. Richard Dir.). UTT, 2001-2004.

Scientific animation

- 2015 GRETSI 2015: Organisation chair of the 25th french symposium of Signal Processing, Lyon 2015.
since 2012 Inria International Direction correspondent for CRI Rhône-Alpes.
2010-2012 Leader of the Inria team-project RESO.
since 2010 Officer of the local liaison board EURASIP.
2010 Evaluation committee member for AERES (LTSI, U. Rennes 1).
2008-2010 Evaluation committee member for ANR (programs *Technologies logicielles* and *SIMI3*).
2009 Co-editor of *Scaling, Fractals and Wavelets*. ISTE – J. Wiley & Sons, Inc. (English edition of *Lois d'échelle, fractales et Ondelette*, collection IC2, Hermès Sc. Pub. 2002.)
2007 Local chair of GridNets 2007, october 2007, Lyon.
2004 Director of the Wavelet And Multiresolution Analysis summer school (WAMA). Cargèse 2004.
2002-2004 Associate Editor of *IEEE Signal Processing Letters*.
2001-2004 Scientific board member of the “Specialists committee” at U. Joseph Fourier, UFR IMA (Section 26).
1998-1999 Scientific board member of the “Specialists committee” at U. Paris XI (Section 61).
1997-2002 Responsible for the Work Group : *Analysis and decision in signal*, and for the Research Group *Fractals and wavelets for signal and image processing* of the GdR CNRS ISIS.

Awards and publications

- 2009 Best demonstration awards at SIGMETRICS for our work on *Automated Traffic measurements and analysis in GRID'5000*. P. Loiseau, R. Guillier, M. Imbert and P. Gonçalves.
2012 Best paper award at Int. Wireless Comm. and Mobile Computing Conf. (3rd International Workshop on Traffic Analysis and Classification) for our work on *Classification of Content and Users in BitTorrent by Semi-supervised Learning Methods*. K. Avrachenkov, P. Gonçalves, A. Legout and M. Sokol.

Link to a complete list of publications : <http://perso.ens-lyon.fr/paulo.goncalves/BIB/>