


PERSONAL INFORMATION

NAME	PEETERS Geoffroy	
DIPLOMA	Ph.D. in Computer Science Engineer in Electronic	
SPECIALTY	Signal processing (audio), indexing and pattern matching	
BORN	October 23, 1971 in Leuven (Belgium)	
NATIONALITY	Belgian	
PRIVATE CONTACT	Email: geoffroy.peeters@gmail.com	

WORK EXPERIENCE

DATES	1999-2008	Research & Development Department of IRCAM
NAME AND ADDRESS OF EMPLOYER	IRCAM – Centre Pompidou 1, pl. Igor Stranvinsky – 75004 Paris - France	
MAIN ACTIVITIES	<p>Research on Audio Signal Processing and Music Information Retrieval</p> <p>Co-ordination of indexing research activities for EU/French research projects</p> <p>Writing of proposals for EU/French projects</p> <p>Functionalities specification, development. and integration with industrial partners</p> <p>Supervisions of Master and PHD students</p> <p>Reviews for International journals (IEEE, Eurasip, AES, JASA, JNMR), reviews for conferences, PhD's thesis jury member</p> <p>Invited speaker (Microsoft, RFI, Telerama)</p> <p>Conference Organization (LSAS)</p> <p>Member of IEEE, AES committee on Audio Semantic Analysis</p>	
2008-	Quaero (All/OSOE French Project) Project Leader at Ircam, Workpackage leader in Quaero (ENST, INRIA, LIMSI)	
2008-	DISCO (Distributed Indexing and Search by Content)	
2006-2007	Ecoute (RIAM French Project), Music Discover (ANR French Project), Sample Orchestrator (ANR French Project)	
2004-2006	Semantic HIFI (I.S.T. European Project)	
2002-2003	CUIDADO (I.S.T. European Project)	
1999-2001	CUIDAD (Esprit European Project), AFNOR representative in ISO-MPEG committees	

	Co-editor of the ISO 15938-4 standard, MPEG-7 Audio
SCIENTIFIC INTERESTS	<p>Signal processing applied to audio transformation (phase vocoder, sinusoidal additive synthesis, p-sola),</p> <p>Signal processing and pattern matching applied to music indexing (audio recognition classification, speech/music discrimination, audio identification/fingerprint, audio summary, tempo description, timbre description)</p>

PUBLICATIONS

JOURNAL PAPERS AND BOOK CHAPTERS	<p>Journal of New Musical Research (submitted 2008)</p> <p>Eurasip, Journal. on Applied Signal Processing (2006)</p> <p>Les nouveaux cahiers de l'audiovisuel (2005)</p> <p>Book Chapter Springer Verlag LNCS (2004)</p> <p>Journal of New Musical Research (2003)</p> <p>La Recherche (2002)</p> <p>International Journal on Satellite Communication (1997)</p>
PATENTS	3 Patents on audio indexing
MEDIA	Télérama, France 3, RFI, 01Net, LeFigaro
CONFERENCE PAPERS	<p>JIM1998 (France), DAFX1998 (Spain), ICMC1999 (China), CBMI1999 (France), ICMC2000 (Germany), AES 110th Convention (The Netherlands), ICMC2002 (Sweden), ISMIR2002 (France), CMMR2003 (France), CBMI2003 (France), ICMC2003 (Singapore), DAFX2003 (UK), AES 115th Convention (US), ICMC2005 (Barcelona), ISMIR2005 (London), ICASSP2006 (Toulouse), DAFX2006 (Montreal), ISMIR2006 (Victoria), DAFX2007 (Bordeaux), ISMIR2007 (Vienna), Acoustics2008 (Paris), ISMIR2008 (Philadelphia)</p>
PRIZES	Best Papers Award of ICMC 2003
TEACHING ACTIVITIES	<p>Teacher in "Acoustic and Digital Signal Processing" for the Hypermedia/Multimedia Master of ENSBA/Telecom Paris</p> <p>Teacher in "Music Information Retrieval" for the Hypermedia courses of the UTC and for the "Jeux Video" Master of the CNAM</p> <p>Teacher in "Audio and music indexing" for the Master ATIAM, Paris VI</p>
PHD'S THESIS JURY MEMBER	Lorchan McLoghan (INRIA/IRISA), Slim Essid (ENST), Arie Livshin (Paris VI)
STUDENT'S SUPERVISION	<p>Master: A. Laburthe, A. Wronecki, F. Mislin, JB Gouyeau, Lise Régnier</p> <p>PHD: D. Tardueu, M. Derio, H. Papadopoulos</p>

EDUCATION AND TRAINING

1996-2001 PHD THESIS	University Paris VI (France) with the highest degree ("félicitations du jury à l'unanimité") <u>PhD thesis subject</u> : "Modèles et modélisation du signal sonore adaptés à ses caractéristiques locales" (Promoters: X. Rodet, President of the Jury: Stephan Mallat, Jury: Th. Dutoit, Ch. d'Alessandro, Ph. Depalle, X. Serra)
1995-1996 DEA- MASTER	University Paris VI (France) Acoustique et Traitement Informatique Appliqué à la Musique" (ATIAM) <u>Master thesis subject</u> : "Real Time Implementation of Variable Fractional Delay on Real-Time Platform Max/FTS, for simulation of Wind Instruments" (Promoters: X. Rodet and Ph. Depalle)
1993-1995 MASTER IN ELECTRONICAL ENGINEERING SCIENCES	Catholic University of Louvain - UCL (Belgium) with honors Specialization: TELECOMMUNICATION (Propagation and radiation, Signal processing, Electromagnetism, Hyperfrequencies), ELECTRONICS <u>End study thesis</u> (with great honours) during a European "Erasmus" exchange program at the University "La Sapienza" in Rome. Subject: "Prediction of Tropospheric Scintillation on Satellite-Earth Microwave links" (Promoters: Dr D. Vanhoenacker for Louvain-La-Neuve, Prof. G. d'Auria for Rome)
1991-1992 UNDERGRADUATE	Catholic University of Louvain - UCL (Belgium) with great honours
TRAINING COURSES	Courses at University of Coimbra (Portugal) on "Renewable energies" Courses at University of Delft (the Netherlands) on "Radar Remote Sensing"

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE	French
OTHER LANGUAGES	English (good level: reading, writing, speaking) Italian (basic level: reading, speaking) Dutch (basic level: reading, speaking)

TECHNICAL SKILLS AND COMPETENCES

PROGRAMMING LANGUAGES IN PRACTICE	Matlab, C/C++, Java, Pascal, Fortran, Flash, MySQL, PHP
ENVIRONMENT AND OPERATING SYSTEM FLUENT IN PRACTICE	PC –Windows, PC-Linux, Mac-OS-X and UNIX stations Word processing, spreadsheets, presentations, Internet/Networks

OTHER SKILLS AND COMPETENCES

MUSICAL EDUCATION	Academy program: Classic solfa (5 years), Classic trumpet (9 years) Training (6 days) in "latino" music at the Academy of Neufchâteau (Belgium), Training (6 days) in jazz harmony at the Academy "Les Lundis d'Hortense" (Belgium),
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	<p>Private courses in jazz harmony (1 year), Training in Javanese music (3 years) Gamelan at La Cite de la Musique, Paris</p> <p>Instruments played: Trumpet, Guitar (Synth-guitar, Bowed-fretless-guitar), Bass, Keyboard</p> <p>Computer Music: Sound processing/editing, sound synthesis, real-time synthesis, midi, sequencer</p> <p>Composition, production, arrangement: 4 CDs for the Italian label Musica Maxima Magnetica, 1 CD for the French label Prikosnovenie, Music for theatre</p>
ORGANIZATION	Organization of numerous concerts and open-air festivals within the framework of a University project in the Brussels region