

François Brémond

1.1 Address

Work Address:

INRIA Sophia-Antipolis, Project PULSAR

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Research Domains: video interpretation, scene understanding, multi-sensor fusion, spatio-temporal reasoning, event recognition, uncertainty management, machine learning and knowledge representation.

1.2 Professional History

- October 2010 - **Research Director** at Institut National de Recherche en Informatique et en Automatique Sophia-Antipolis Méditerranée.
- September 2009 - **Head of the PULSAR team** (INRIA project team) at Institut National de Recherche en Informatique et en Automatique Sophia-Antipolis Méditerranée.
- 2nd July 2007 - **HDR**, (diploma to supervise researcher) from the University of Nice – Sophia Antipolis on Scene Understanding: perception, multi-sensor fusion, spatio-temporal reasoning and activity recognition.
- 1st January 2002 - Confirmed Researcher at INRIA (CR1).
- 1st February 2000 - **Permanent research position** at INRIA (CR2) in the ORION INRIA project team.
- 1997- 2000: **Post-Doctorate** at the University of Southern California (U.S.C.) in Los Angeles (U.S.A.), at the Institute for Robotics and Intelligent Systems (I.R.I.S.), directed by the Professors Ramakant Nevatia and Gérard Médioni.

1.3 Education

- 1994 - 1997: **Doctorate** in Computer Science from the University of Nice - Sophia Antipolis at I.N.R.I.A in the ORION project team, « Environnement de résolution de problèmes pour l'interprétation de séquences d'images », obtained with great honor under the direction of Monique Thonnat.
- 1989 -1992: **Master** in Computer Science from the École Normale Supérieure de Lyon et de l'Université Claude Bernard (Lyon I) specialty in vision and artificial intelligence.
- 1989 Graduate from the École Normale Supérieure in Lyon, in Computer Science.
- 1986 - 1989: Classes Préparatoires at Descartes College in Tours.

1.4 Teaching

Teaching of **video interpretation techniques** since 6 years at the master and doctorate level and teaching in computer science for 14 years.

- 2003 - 2011: Teaching at EURECOM **Master** at Sophia Antipolis, 3hours class on video understanding techniques.
- 2008: **Thematic School** as a speaker: Dagstuhl Seminar, Wadern, Germany on February 24-29, 2008 and VISIONTRAIN School, Les Houches, France on March 10-14, 2008.
- 2007: Teaching at DUIE (professional training) of the Nice University - Sophia Antipolis for gerontologist assistants – 16th February 2007, 1h30 class on video interpretation techniques.
- 2000 - 2004: Teaching at Nice University for the **Master** in Astronomy, 3h class on methods for statistical and Bayesian classification.
- 1994 - 1997: Teaching at Nice University for post graduated students on programming languages (64 hours per year).

1.5 Supervision of Research Activities

Head of the group on Video Understanding in the PULSAR team since 2000. More precisely supervisor of **54 students and researchers: 15 doctorate students, 23 master students and 16 research engineers**. More details available at: <http://www-sop.inria.fr/members/Francois.Bremond/topicsText/supervision.html>

Supervisor/Co-supervisor for 7 ongoing PhDs

- **Emmanuel Mulin** (psychiatrist at Nice Hospital): from January 2010 till January 2013. Using video understanding to monitor Alzheimer patients. 60% co-supervision with P. Robert (Nice Hospital).
- **Piotr Bilinski**: from January 2010 till January 2013. Action recognition for human activity understanding. 100% supervision.
- **Malik Souded**: from December 2009 till December 2012. Tracking people through a video camera network. 100% supervision with the participation of Laurent Giulieri from Keeneo.
- **Rim Romdhame**: from March 2009 till March 2012. Event Recognition in Video Scenes with Uncertain Knowledge. 50% co-supervision with M. Thonnat and P. Robert (Nice Hospital).
- **Slawomir Bak**: from February 2009 till February 2012. People detection in temporal video sequences by defining a generic visual signature of individuals. 100% supervision.
- **Duc Phu Chau**: from December 2008 till December 2011. Optimizing tracking algorithms for scene understanding. 80% co-supervision with M. Thonnat.
- **Guido-Tomas Pusiol**: from October 2008 till October 2011. Event Learning based on Trajectory Clustering. 100% supervision.

Supervisor/Co-supervisor for 8 defended PhDs

- **Anh Tuan Nghiem**: from November 2006 till June 2010. People detection and algorithm parameter tuning. 80% co-supervision with M. Thonnat.
- **Nadia Zouba**: from November 2006 to January 2010. Multisensor Fusion for Monitoring Elderly Activities at Home. 75% co-supervision with M. Thonnat.
- **Mohamed Becha Kaaniche**: from April 2006 till November 2009. Gesture recognition for human activity interpretation. 100% supervision.
- **Marcos Zuniga**: from January 2005 till November 2008. Primitive Event Learning and Recognition in Video. 75% co-supervision with M. Thonnat.
- **Bernard Boulay**: from October 2003 till December 2006. Posture recognition for human activity interpretation. 75% co-supervision with M. Thonnat.
- **Benoît Georis**: from September 2002 till January 2006. Program Supervision Techniques for Easy Configuration of Video Understanding Systems. PhD of

Catholic University of Louvain la Neuve (UCL) Belgium. 60% co-supervision with M. Thonnat and B. Macq.

- **Thinh Van Vu:** from October 2001 till October 2004. Temporal Scenario for Automatic Video Interpretation. Defended in October 2004. 60% co-supervision with M. Thonnat.
- **Somboon Hongeng:** from January 1998 till January 2004. A Unified Bayesian and Logical Approach for Video-Based Event Recognition. PhD of the University of Southern California. Defended in May 2003. 40% co-supervision with R. Nevatia.

Post-doctorate Researchers and Visiting Doctorate Students

- **Tanvi Banerjee:** May 2010 to August 2010. Doctorate Researcher from the University of Missouri working in Gait Analysis from homecare videos.
- **Hector Gomez:** April 2010 to July 2010. Doctorate Researcher from the Universidad Tecnica Particular de Loja (Ecuador) and from Universidad de Almeria (Spain) working in performance evaluation for video processing.
- **Pau Baiget:** November 2009. Post-doctorate Researcher from the Computer Vision Center at the Autonomous University of Barcelona, Spain.
- **Gal Lavee:** August 2008 till October 2008. Doctorate Researcher from Computer Science Department, Technion (Israel Institute of Technology), Technion City, Israel, in Understanding Video Events.
- **Suresh Sundaram:** August 2007 till August 2008. Post-doctorate Researcher from IIT-Delhi, India, in machine learning and on-line learning system for visual tracking.
- **Tomi Raty:** February 2007 till February 2008. Doctorate Researcher from VTT Technical Research Centre of Finland, in Scalable Video Transmission for Surveillance Systems.

1.6 Collaboration and research projects

Member of the **steering committee** and **work package leader** of: 10 European projects, 10 French projects, 7 industrial projects, 1 Asian project and 1 U.S. project (corresponding to 29 research projects). More details available at: <http://www-sop.inria.fr/members/Francois.Bremond/topicsText/researchProjects.html>
The running projects are:

- **[2010 - 2014] SUPPORT Project - Autonomous Monitoring for Securing European Ports** (Security UPgrade for PORTs) is a FP7-SEC-2009-1 IP European project (48 months). The prime partner is BMT Group (UK) and other partners are: INRIA Sophia-Antipolis (France), Swedish Defence

Research Agency (SE), Securitas (SE), Technical Research Centre of Finland (FI), MARLO (NO), INLECOM Systems (UK)... SUPPORT is addressing potential threats on passenger life and the potential for crippling economic damage arising from intentional unlawful attacks on port facilities, by engaging representative stakeholders to guide the development of next generation solutions for upgraded preventive and remedial security capabilities in European ports. INRIA goal is to study the benefit of a Video-Surveillance system integrated in a global security infrastructure to address potential threats in European ports.

- **[2010 - 2013] VANAHEIM Project - Autonomous Monitoring Of Underground Transportation Environment** (Video/Audio Networked surveillance system enhancement through Human-centered adaptive Monitoring) is a FP7-ICT-2009-4 Cognitive Systems and Robotics IP European project (42 months). The aim of this proposal is to study innovative surveillance components for autonomous monitoring of multi-sensory and networked infrastructure such as underground transportation environment. The prime partner is Multitel (Belgium) and other partners are: INRIA Sophia-Antipolis (France), Thales Communications (France), IDIAP (Switzerland), Torino GTT (Italy) and RATP (France), Ludwig Boltzmann Institute for Urban Ethology (Austria) and Thales Communications (Italy).
- **[2009 - 2012] ViCoMo Project - Visual Context Modelling** - is an ITEA 2 European Project (36 months). This project concerns advanced video-interpretation algorithms on video data that are typically acquired with multiple cameras. ViCoMo is focusing on the construction of realistic context models to improve the decision making of complex vision systems and to produce a faithful and meaningful behaviour. Participating countries are France, Spain, Finland, Turkey, Belgium, and Netherlands.
- **[2009 - 2012] SWEET-HOME Project - monitoring Alzheimer patients at Nice Hospital** - is an ANR TECSAN French project (3 years) on long-term monitoring of elderly people at Hospital with Nice City Hospital, Actis Ingenierie, MICA Center (CNRS unit) in Hanoi, Vietnam, SMILE Lab at National Cheng Kung University, Taiwan and National Cheng Kung University Hospital. The SWEET-HOME project focuses on two aspects related to Alzheimer disease: (1) to assess the initiative ability of patient and whether the patient is involved in goal directed behaviours (2) to assess walking disorders and potential risk of falls. In this focus, the goal is to collect and combine multi-sensor (audio-video) information to detect activities and assess behavioural trends to provide user services at different levels. In this project experimental rooms are used in Nice-Cimiez Hospital for monitoring Alzheimer patients.
- **[2008 – 2011] CIU-Santé** is a DGE French project (30 months) on long-term monitoring of **elderly people at home** with CSTB, the Nice City Hospital, Pôle SCS, Actis Ingenierie, Movea, CEA and UNSA. In this project two experimental rooms are built in Nice-Cimiez Hospital for setting up an evaluation platform to assess technological solutions.

- [2008 – 2011] **VIDEO-ID** is a French ANR Security project (36 months) on intelligent **video surveillance and people biometry**. The involved partners are: Thales-TSS, EURECOM, TELECOM and Management SudParis, UIC, RATP, DGA, STSI.
- [2008 – 2011] **COFRIEND**: the European ICT-FP7 project Cofriend (36 months) aims at conceiving cognitive vision system for automatic monitoring of human activities. Cofriend project follows up the Avitrack project. The project studies all activities occurring around **aircraft parked on aprons** at Toulouse airport. Most specifically the system has to adapt itself to lighting condition changes, weather changes, to new airport configurations, to the arrival of new servicing vehicles and new aircraft types. The performance of the system to recognize correctly the actions of interest and its capability to adapt itself to unexpected situations are a key point of this project. Six teams are involved in Cofriend: INRIA Sophia-Antipolis, Silogic, Toulouse airport (France), University of Reading and of Leeds (UK), University of Hamburg (Germany).
- [2008 – 2009] **MONITORE**: Real-time Monitoring of **TORE Plasma** is an INRIA Exploratory Action (24 months) for the real-time monitoring of imaging diagnostics to detect thermal events in tore plasma. This work is a preparation for the design of the future ITER nuclear reactor and is done in partnership with the Imaging and Diagnostics Group of the CEA Cadarache, France.
- [2006 – 2010] **SYSTEM@TIC** project **SIC**. The SIC project (42 months) from the French "pole de compétitivité" SYSTEM@TIC is a strategic initiative from the Paris region in **perimeter security** for sensitive buildings. The partners include Thales, EADS, Alcatel, BULL, SAGEM, Bertin, Trusted Logic, CEA, Sodern, Axalto, GET/INT, Paris Sud and RATP. The solutions proposed by SIC project will be validated through two demonstrators, RATP subway station and Bobigny administrative building.

1.7 Software realization and dissemination

Several experiences in technological **transfer** towards **industrials** have permitted to exploit research result:

- **Consultant** for companies in intelligent video surveillance: Ivisiotech in 2006-2007 and Keeneo from 2005 to 2010.
- **Co-fonder** of a company in intelligent video surveillance in 2005 and member of scientific counsel: **Keeneo**, 18 people, awarded in the Tremplin exam Entreprise-Sénat and awarded in the national exam for spin-off creation in innovative technology in 2005.

- **Patent and Software:** co-inventor of two large software (VSIP and PFC); one of which VSIP was registered at APP (French software administration) in 2005.
- **Technological Transfer:** co-inventor of the **VSIP** platform on intelligent video surveillance for 10 European projects R&D and 6 industrial contracts (in particular Akka, Bull and Vigitec).
- **Co-inventor** of the real-time 4D software called **PFC** for counting and classifying people traveling in the subway. This software has been transferred to a SME in video processing (Timeat) in Rennes and to RATP.

1.8 Dissemination of scientific knowledge

Several articles have been disseminated towards **large news media** and have enabled to make known this scene interpretation work to a wide population:

L'Ordinateur individuel (March 1999), *Sciences et Avenir* (January 2000), *Industries et Techniques* (juillet 2000), *Transert* (June 2001), *Le Monde* (August 2001), *De Morgen* (Belgique August 2001) ; *La Meuse* (Belgique August 2001) *Les Echos* (September 2001), *l'Expresso* (Italie, September 2001), *Ercim News* (Europe, October 2001), *Byte.com* (Royaume-Uni, 7 April 2003), *Faits marquants de la recherche et développement à la RATP* (2004), *Stratégies et veille technologique*, Crédit Agricole (n° 7, December 2004), *Enjeux les Echos* (n° 209, January 2005), *Ca m'intéresse* (October 2005), *Webzine du CSTB* (December 2005), *Journal des Electriciens* (n° 838, April 2006), *Nice Matin* (2 October 2006), *Frost & Sullivan* (10 Jan 2008), le journal *Domotique News* no224 Jun 2008, *La Recherche* (March 2009), French Press Agency (A.F.P. - April 2009), *Santé - France Soir* (24 April 2009), interview *B.B.C. World* (May 2009), *Fête de la science* octobre 2009, *Science-et-vie* avril 2010.

1.9 Collaboration, Visits

Thematic mobility through 7 scientific domains (related to cognitive systems) and **geographic mobility** including 4 laboratories in France and in US:

2006 - 2010

Unsupervised learning of scenario models in Sophia-Antipolis.

2003 - 2006	Control and evaluation of programs for scene interpretation in Sophia-Antipolis.
2000 - 2003	Recognition of scenarios using temporal constraint networks in Sophia-Antipolis.
1997- 2000	Recognition of scenarios using Bayesian networks and Hidden Markov Models (HMM) at USC in Los Angeles at R. Nevatia laboratory (U.S.A.).
1994 - 1997	Modeling of the video interpretation process at INRIA in Sophia-Antipolis .
1992	Spatio-temporal reasoning for knowledge based systems at INPG in Grenoble (F. Rechenmann laboratory).
1991	Classification using neural networks at Providence - Rhodes Island (U.S.A.).

1.10 Scientific responsibilities

Participations, invitations and responsibilities for several scientific conferences:

- **Organizer** of
 - a SOOS day of the SFO «Concepts Avancés De Réseaux De Caméras Optroniques Pour La Surveillance Automatisée», 15 October Paris.
 - a GdR-ISIS day (Intelligent Video Surveillance), Paris, 17 December 2008.
 - the ETISEO seminars on performance evaluation for video interpretation from January 2005 to December 2006.
- **Handling editor** of the international journal “Computing and Informatics” since September 2006.
- **Experts of the French ANR** (research agency) in 2007 and 2009 for the call "Concepts Systèmes et Outils pour la Sécurité Globale" (CSOSG).
- Member of the **Scientific Committee** of CSOSG 2009 of the French ANR
- **EC INFSO Expert** in the framework of Ambient Assisted Living European FP7 (HERMES and VitalMind projects) 2007-2011.
- **EC ICT Expert** for the Evaluation of 7th Call : FP7-ICT-2011-7 for the objectives 5.4 & 5.5 in Brussels between 28th February and 25th March 2011.

- **Network member** of the 2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (EUCogII network).
- **Reviewer for the journals:** AIJ Artificial Intelligence Journal, IET Computer Vision, CVIU Computer Vision and Image Understanding, IJHCS International Journal of Human-Computer Studies, IJPRAI International Journal of Pattern Recognition and Artificial Intelligence, IMAVIS Image and Vision Computing, IVCJ Image and Vision Computing Journal, JPRR Journal of Pattern Recognition Research, MEP Medical Engineering and Physics, MVA Machine Vision and Applications Journal, The Open Cybernetics and Systemics Journal, PAAJ, PR Pattern Recognition Letters, IEEE Intelligent Systems Pattern Recognition Letters, EURASIP-JASP, EURASIP-JIVP Journal on Image and Video Processing, PAMI Transactions on Pattern Analysis and Machine Intelligence, Transactions on Systems Man and Cybernetics Sensors journal, IEEE Transactions on Multimedia, TKDE Transactions on Knowledge and Data Engineering, IEEE Transactions on Neural Networks.
- **Program committee** member of the conferences and workshops: WAMOP IEEE ICNSC'06 (International Conference on Networking and Sensing Control), IEEE ECCV'06 (European Conference on Computer Vision), IEE International Conference on Imaging for Crime Detection and Prevention ICDP 2005-2006'09, VIE 2006-2007 Visual Information Engineering, CVPR 2007 Computer Vision and Pattern Recognition, M2SFA2 2008 ECCV Workshop on Multi-camera and Multi-modal Sensor Fusion, ICVS 2008-2011 International Conference on Computer Vision Systems, VNBA 2008 ACM International Workshop on Vision Networks for Behavior Analysis, AVSS 2006-2009 IEEE Conference on Advanced Video and Signal based Surveillance, Workshop on Performance Evaluation of Tracking and Surveillance PETS, VS-Pets2005, VS 2005-2009 IEEE International Workshop on Visual Surveillance, IWINAC 2009 3rd International Work Conference on the Interplay between Natural and Artificial Computation, BMVC 2008 British Machine Vision Conference, ACM Multimedia 2009 Workshop Multimedia in Forensics, Tracking Humans for the Evaluation of their Motion in Image Sequences (THEMIS 2009), Pattern Recognition and Artificial Intelligence for Human Behaviour Analysis (PRAI4HBA 2009), workshop Visage (part of RFIA 2010), Workshop Interdisciplinaire sur la Sécurité Globale (WISG 2010), ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC 2010).
- **Reviewer for the conferences** and workshops RFIA'03'10, BMVC'04'06-09, ECAI'04, WAMOP, CVPR'04-05'07-10, ACIVS'05'09, ICCV'05'08-09, IJCAI'05, AVSS'05-10, ECCV'06, ICVS'06-10, VIE'06-07, VS-Pets2005, VS'05-09, ICDP'05-09, ICNSC'06, CDPR'06, WMVC08, IEEE IWINAC 2008, INDIN 2008.
- **Session chair** and chairman of discussion panels of conferences
 - AVSS11,
 - ICDP'05,

- WMVC 2007 IEEE Workshop on Motion and Video Computing - Austin Texas - USA, February 23-24, 2007,
- **Area chair** of the 6th IEEE International Conference on Advanced Video and Signal Based Surveillance, AVSS'09, Genoa, Italy, September 2-4, 2009.
- **Collaboration** with several international teams such as Multitel in Belgium, the University of Southern California, U.S., the National Cheng Kung University in Taiwan and University of Kingston upon Thames UK.
- Member of **steering committee** and **work-package leader of**: 10 European projects, 10 French projects, 7 industrial projects and 1 U.S. project (corresponding to 28 research projects).
- **Reviewer of 11 PhD theses:**
 - Christophe Le Gal de l'Institut National Polytechnique de Grenoble in 2003,
 - Mr. Maxime Cottret at LAAS in Toulouse, October 2007,
 - Claudio Piciarelli of University of Udine, Italy, February 2008,
 - Fida EL BAF from the Université de La Rochelle, France, June 2009,
 - Pau Baiget from Computer Vision Center at the Autonomous University of Barcelona, Spain, July 2009,
 - Baptiste Hemery from ENSICAEN - GREYC, Caen, France, December 2009,
 - Ahmed Ziani from Laboratoire LASL, Université du Littoral Côte d'Opale, Calais, France, 2010.
 - Alexander Kläser, from the University of Grenoble, 31 July 2010.
 - Omar HAMDOUN, Ecole Nationale Supérieure des Mines de Paris, 16 December 2010.
 - Dora Luz Almanza-Ojeda, Université Paul Sabatier de Toulouse, Jan 2011.
 - Cedric Rose, Université Henri Poincaré Nancy, 27 mai 2011.
- **Invited Talks**
 - Workshop M.I.T. invited by A. Bobick - Massachusetts, May 1997.
 - Seminar by M. Ghallab at L.A.A.S. - Toulouse, March 1997.
 - Seminar by G. Medioni at the University of Southern California, L.A. (U.S.A.), February 1997.
 - Seminar for the workshop Connaissance et Documents Temporels (AFIA 2005), Nice, France.
 - Seminar by J. Ferryman at the conference PETS 2007 (Performance Evaluation of Tracking and Surveillance) during ICCV 2007, Rio de Janeiro Brazil.
 - Seminar at the Journée Mondiale de l'Utilisabilité, Sophia-Antipolis, November 2007.
 - Talks at AViRS 2008 (Analyse Video pour le Renseignement et la Sécurité, Paris, April 2008),
 - Talk at THEMIS 2008 (Tracking Humans for the Evaluation of their Motion in Image Sequences, part of BMVC 2008, Leeds, Sept. 2008) and

- Talk at VS 2008 (Visual Surveillance workshop, part of ECCV 2008, Marseille, Oct. 2008),
 - Seminar at the Workshop YES, French embassy at Washington DC, July 2009.
 - Talk at the « états généraux de la personne âgée », Marseille, France, October 2009.
 - Talks, invited by Lim Joo Hwee: as Short-Term Visiting Scientist on scene understanding, at Institute for Infocomm Research in Singapore from 8 to 16 August, 2010.
 - Talk at the SafeCity@Euromed Summit on the 21st May in Genoa.
- **Invitation for winter/summer school** as a speaker
 - invited by B. Neumann: Dagstuhl Seminar, Wadern, Germany on February 24-29, 2008,
 - invited by V. Hlavac: VISIONTRAIN School, Les Houches, France on March 10-14, 2008.
 - invited by Florence SEDES : Ambiance Intelligence, Lille, 4-10 July 2011.

1.11 2009-2010 realizations

- **New Publications**
 - 3 international journals
 - 15 international conferences
 - 2 national conferences
- **(Co-)supervision of 4 new PhDs**
 - Emmanuel Mulin,
 - Piotr Bilinski,
 - Malik Souded,
 - Rim Romdham.
- **Defense of 2 PhDs:**
 - Mohamed Becha Kaaniche on Gesture recognition for human activity interpretation (100% supervisor).
 - Nadia Zouba on Multi-sensor analysis of people behaviour on Geriatrics and Assisted Autonomy (75% supervisor with M.Thonnat).
- **4 new research projects**
 - SWEET-HOME on Alzheimer patient monitoring,
 - VICOMO on Visual Context Modeling,
 - VANAHEIM on learning and subway monitoring,
 - SUPPORT on real-time monitoring of ports.

- **Invited Talk** for the « états généraux de la personne âgée », Marseille, France, October 2009.
- **Seminar Organizer** for the SOOS day of the SFO «Concepts Avancés De Réseaux De Caméras Optroniques Pour La Surveillance Automatisée», 15 October Paris.
- **Network member** of the 2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (EUCogII network).
- **ANR Expert** for the 2009 edition of Project Call: "Concepts Systèmes et Outils pour la Sécurité Globale".
- **EC INFSO Expert** in the framework of Ambient Assisted Living European FP7.
- **Reviewer** for 4 PhD defenses:
 - Fida EL BAF from the Université de La Rochelle, France,
 - Pau Baiget from Computer Vision Center at the Autonomous University of Barcelona, Spain,
 - Baptiste Hemery from ENSICAEN - GREYC, Caen, France,
 - Ahmed Ziani from Laboratoire LASL, Université du Littoral Côte d'Opale, Calais, France.
- **Area chair** of the 6th IEEE International Conference on Advanced Video and Signal Based Surveillance,
 - AVSS'09, Genoa, Italy, September 2-4, 2009.
 - AVSS'11.
- **Program Committee** member: ACM Multimedia 2009 Workshop Multimedia in Forensics, International Conference on Imaging for Crime Detection and Prevention (ICDP09), Tracking Humans for the Evaluation of their Motion in Image Sequences (THEMIS 2009), Pattern Recognition and Artificial Intelligence for Human Behaviour Analysis (PRAI4HBA 2009), International Conference on Computer Vision Systems (ICVS 2009 and ICVS 2011), Visual Surveillance (VS2009), workshop Visage (part of RFIA 2010), Workshop Interdisciplinaire sur la Sécurité Globale (WISG 2010), ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC 2010).
- **Reviewer** for the journals: IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Intelligent Systems Pattern Recognition Letters, IEEE Transactions on Multimedia, Computer Vision and Image Understanding, Artificial Intelligence Journal, Transactions on Systems, Man, and Cybernetics Sensors journal, Machine Vision and Applications Journal.
- **Reviewer** for the conferences: International Conference on Computer Vision (ICCV09), British Machine Vision Conference (BMVC09), Asian Conference on

Computer Vision (ACCV 2009), Computer Vision and Pattern Recognition (CVPR 2009-2010), Reconnaissance des Formes et Intelligence Artificielle (RFIA10).