

Ecole Centrale of Nantes  
France

Curriculum vitae

presented by

Philippe Martinet

Full Professor at Ecole Centrale of Nantes

Researcher at IRCCyN

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# 1 Personal data

## Philippe Martinet

Born february 3<sup>rd</sup>, 1962 in Clermont-Ferrand (Puy-de-Dôme)

French Citizen

Married

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## 2 Educational and professional records

### Educational Record

Year	Diploma	University	Place
1982	DEUG A1 Mathematics/Physics	Blaise Pascal University	Clermont-Fd
1985	Engineer : Electronics	CUST - Blaise Pascal University	Clermont-Fd
1985	MASTER : Electronics and System	Blaise Pascal University	Clermont-Fd
1987	Phd : Electronics and System	Blaise Pascal University	Clermont-Fd
1999	Habilitation	Blaise Pascal University	Clermont-Fd

### Professional Record

Year	Position	Site	Place
1987	Head of Test group	CSEE	Riom (63)
1990	Sales engineer	GST-Alcatel Centre	Clermont-Fd
1990	Assistant professor	CUST - Blaise Pascal University	Clermont-Fd
1995	Assistant professor 1 <sup>st</sup> class	CUST - Blaise Pascal University	Clermont-Fd
1999	Habilitation january 20 <sup>th</sup>	Blaise Pascal University	Clermont-Fd
2000	Full professor	IFMA	Clermont-Fd
2005	Full professor : 1 <sup>st</sup> class	IFMA - Blaise Pascal University	Clermont-Fd
99-06	Head of Robotic System Control Team	LASMEA - Blaise Pascal University	Clermont-Fd
01-06	Head of GRAVIR	LASMEA - Blaise Pascal University	Clermont-Fd
06-07	Visiting professor	ISRC - Sungkyunkwan University	Suwon, Korea
07-11	Head of ROSACE Team	LASMEA - Blaise Pascal University	Clermont-Fd
08-11	co-Head of UMT	ADIV - Blaise Pascal University	Clermont-Fd
10-11	co-Head. of KFJRC-CPTSR	Korea-France Joint Research Center on Cognitive Personal Transport Service Robot	Suwon, Korea
2011	Full professor : Exceptional class 1	Ecole Centrale of Nantes	Nantes
since 2012	In charge of MASTER 2 ARIA Advanced Robotics	Ecole Centrale of Nantes	Nantes
since 2014	Coordinator of EMARO and EMARO+	Ecole Centrale of Nantes ERASMUS Mundus JMD	Nantes
2015	Full professor : Exceptional class 2	Ecole Centrale of Nantes	Nantes
since 2015	Deputy Director GdR Robotique	CNRS	France
15 – 16	Board of Director	euRobotics	Europe
17 – ..	Co-head	ARMEN Team	Nantes

After my Phd Thesis, I decided to take a position in industry. From september 1987 until 1990, I was the head of the Test Group (total staff 11 persons) at CSEE. The main goals of the group were : software development for electronic board testing, design of automatic and manual test-bench, software development for cable continuity testing. During these three years, I discovered the main aspects of a group leader. Since I entered the engineering educational system, this experience helps me everyday.

From 1990 until 2000, I was assistant professor at CUST, in the Electrical Engineering Department. I took in charge the International Exchange Program and one of the main specialization in

Industrial Computer Sciences. I participated in several committees at local and national level, and I developed a set of new courses including labs.

From 1990 until 1999, I prepared my Habilitation inside the research group GRAVIR at LASMEA driven by Professor Jean Gallice. My main research activity was "Visual Servoing". I defended it on January 20th, 1999 in Clermont-Ferrand. The jury was composed as follows:

Name	Function	Title
Bernard Espiau	President Examiner	Director of research at INRIA
François Chaumette	Reviewer	Researcher (HdR) at IRISA
Philippe Coiffet	Reviewer	Director of Research at CNRS
Jean Gallice	Examiner	Full Professor
Giulio Sandini	Reviewer	Full Professor at Genova University
Michel Dhome	Examiner	Director of Research at CNRS
Michel Berducat	Invited	Research Engineer at Cemagref

### 3 Current position : main facts

Since September 2011, I am professor at Ecole Centrale of Nantes. I am the coordinator of the Erasmus Mundus master program EMARO/EMARO+ (European Master on Advanced Robotics). I am currently teaching Computer Vision, Vision Based Control, Mobile Robotics, Intelligent Transportation system, Robot Modeling, Robot Control... I am currently doing my research in the Robotics Team at **IRCCyN** (Research Institute on Communication and Cybernetics of Nantes). The first January 2017, I will be member of the new Laboratory LS2N where we have created a new research Team named ARMEN. I am member of the governing board of the Club EEA and member of the Automatic section. I am Deputy Director of the Robotics Research Group from CNRS. In 2015, I was elected as member of the Board of Directors of euRobotics. Since 2011, I am member National Council of the universities (CNU 61) which is in charge of the evaluation and promotion of PhD, Assistant Professors and Professors.

From September 2000 till 2011, I was professor at IFMA (French Institute for Advanced Mechanical Engineering). I set up a Mechatronics orientation in the cursus, and I initiated research collaboration between LAMI (**L**aboratoire de **M**écanique **I**ngénierie) and LASMEA (**L**aboratoire des **S**ciences et **M**atériaux pour l'**E**lectronique, et d'**A**utomatique).

Between 2009 and 2011, I put in place one robotic profile in the Engineering studies of the MMS Pole in the context of the new pedagogic program. In this aim, I have taken in charge one teaching unit **Numerical Analysis** in first year, two teaching units **Real Time System** and **Metrology, Perception and Vision** in second year, two teaching units **Non Linear Systems Control** and **Sensor Based Control** in third year. I was member of the governing board of IFMA.

From 2001 until 2006, I was elected as the head of the Automatic, Vision and Robotic Research Group - *GRAVIR* - at LASMEA. In July 2006, This group was composed of 26 permanent people, 32 phd students, 4 post-doc students, and 4 technical staff. Adding Master and staying period students, the size of the group is over 70 persons. The main research themes are : *Perception System, Artificial Vision* and *Robotic System Control*.

Since my habilitation in 1999 and until 2006, I led the *Robotic System Control* team inside the research group GRAVIR. In 2006, we were 5 permanent people (one professor *P. Martinet*, four

assistant professors *L. Adouane, N. Andreff, Y. Mezouar, B. Thuilot*), 8 Ph.d students (*P. Avanzini, G. Blanc, N. Bouton, C. Cariou, J. Courbon, T. Dallej, R. Dahmouche, F. Paccot, T. Virin*) and 1 post-doc (*O. Tahri*). The main research topics were :

- **VISIR** : Visual servoing of robot (*Omnidirectional visual servoing, Topological navigation through sensory memory, Multi-sensor-based control*)
- **AGV** : Automatic Guided Vehicles (*Control design under uncertain dynamics, Multi-robot system control*)
- **MICMAC** : Modeling, Identification and Control of Complex Machines (*Vision-Based Identification of Parallel Robots, Vision-Based Control of Parallel Robots, Control of High Dynamics System*)

I was the scientific leader of the MICMAC activity.

During the year 2006-2007, I was visiting Professor in **Sungkyunkwan University**, in Suwon, South Korea. I was teaching at the MASTER level, and mainly making research in the **Intelligent Robotic Research Center** in the field of Robotic and Vision.

With my team ROSACE (replacing the *Robotic System Control* team in 2006), we were engaged in a large set of local, national and international projects (2006-2011).

- At the local level, we were working in common in a CNRS Research Federation gathering 3 laboratories (LAMI, LIMOS and LASMEA) from the Blaise Pascal University and one research team from Cemagref (Agricultural and environmental engineering Research Institute). We are engaged in two main projects : **V2I** *Innovating Infrastructure and Vehicle* and **M2I** *Innovating Mechanism and Machine*. One important local organization allows us to fund equipment and grants (phd,postdoc). In october 2008, we have created a Mixt Unit of Technology in the field of "Robotization in the meat industry ". This MUT is recognized by the french ministry for 5 years. Members are : ADIV, LASMEA, LAMI and LIMOS. I was the co-leaser of this MUT.
- At the national level, we were involved in 5 ROBEA-CNRS projects (**MAX** and **MP2** (Complex and parallel machines), **OMNIBOT** (Autonomous navigation with omnidirectional vision sensors), **R2M** (All terrain rover with high mobility capabilities) and **BODEGA** (Autonomous Urban vehicles)), in the **MOBIVIP** (Autonomous Urban vehicles) project founded by the PREDIT research program (dealing with experimentation and innovation in land transport), in **WACIF** (Autonomous navigation in home environment) project founded by the National Network in Software Technologies. We were engaged in diffrent ANR projects: **PSIROB - FAST** (Fast Autonomous rover SysTem), **PREDIT TSFA : CITYVIP** (Déplacement sûr de véhicules individuels adaptés à l'environnement urbain), **Jeunes Chercheurs VIRAGO**, **CONTINT : R-DISCOVER** (Mobile Robot networks: Decentralized omnivision-based space coverage. Cooperative perception, localization and navigation), **ARPEGE : PROTEUS** (Robotic Platform to facilitate transfer between Industries and academics), and we are currently involved in **ARPEGE : COGIRO** (Commande des robots géants), **ARPEGE : ARMS** (Système multibras pour la séparation de muscles (I am the coordinator of the project)). We were also involved in 3 FUI projects: **SRDVIAND** (Développement de systèmes robotisés pour le désossage et la découpe des viandes des animaux de boucherie), **CRISTAL** (Cellule de Recherche Industrielle en Systèmes de Transports Automatisés Légers), **VIPA** (Véhicules Individuels Publics Automatiques).
- At the international level, we had a collaboration with Jaume I University in Castellon (Spain) and a collaboration with Korea (STAR: SAFEMOVE03-04, ICT-ASIA: FACT06-07,ICT-ASIA

: CITYHOME09-11), we were involved in the **EURON** Robotic Network (labelled as a Network of Excellence in the 6th PRCDT European Program) and in an integrated project **NEXT** (with 25 partners) dealing with Next generation Production system (Complex and parallel machines). In 2009 falls, we started one collaboration with ISRC in Sungkyunkwan University, in South-Korea for 3 years. We have setup a laboratory without walls (I was the codirector of this laboratory), a dual Phd program (with 4 phd cosupervised), and one collaboration contract for three years (89Keuros/year).

We had collaboration with a set of national laboratories (IRISA-LAGADIC, INRIA-ICARE, LIRMM, LAAS, ISIR, IRCCYN, MIS, HEUDYASIC), French Institutes (CEA, CEMAGREF, INRIA), French industrial partners (WanyRobotics, FT R&D, ROBOSOFT, CLAAS, DASSAULT Aviation, THALES, FATRONIK, EADS-IW, Airbus, BaSystem, Clemessy...).

In october 2016, in the framework of IRCCyN, I am involved in four different ANR projets (**VI-SIOLAND** (Visual servoing of UAV), **VALET** (Platooning and Parking)), **ARROW** (High speed parallel robot), and **ROBOTEX**), two projects from IRT Jules Vernes (**ASIMOV** (in collaboration with EADS IW, AIRBUS, CEA and BA System)), MASCOT), one project funded by the region Pays de la Loire (ROBECOLO), one ICT-ASIA project called SIMCities, one PSPC project VASCO (in collaboration with Gaussin, Ba-System, Crystal). I am leading the research axis Mobile robotics, and involved in Humanoid robotics and Production robotics. We have setup an Inter-university Research Center on Robotics and Autonomous Systems in Emergency Scenarios (RASES) between ECN and the university of Genova.

The first january 2017, I will be co-leader of the new team ARMEN in the new laboratory LS2N. The new team will gather 6 permanent staff (1 Professor, 1 researcher, 4 assistant professors, 1 research Engineer), and 20 temporary staff (9 PhDs, 2 research engineers, 9 master students). The team will be organized with three main research themes : Design and environment, Perception of environment, Interaction with the environment.

I also contributed to the international research community as conference reviewer (ICRA, IROS, ICINCO, IV, CIFA, AISTA, CDC, ROBOTICA, ITSC, DARS ...), conference session chairman (ICRA, IROS, AISTA, ITSC, ICARCV ...), program committee member (IROS, ICRA, AISTA, ICINCO, IV, ITSC, OMNIVIS, PSIVT, DARS, ICARCV ...), International Journals reviewer (ITRO, TRO, IJRR, IJCV, IJM, JESA, IJOSS, JISR, TS...), National Journal reviewer (TS), Editorial board member (Editor for ICRA(13-16), Associate Editor of IEEE-Robotic And Automation Society Conference (ICRA, IROS, ITSC, IV), AE of Journal of Intelligent Service Robotics, AE for RA-L (16-17), AE for TransIV (16...)), IEEE Technical Committee (Algorithms for Planning And Control of Robot Motion) as Co-chair (and corresponding chair) of IEEE Technical Committee (Autonomous Ground Vehicles and Intelligent Transportation Systems) (in 2013 the TC has obtained the RAS award for the Most Active RAS TC), and organizer of international events (summer school (2), tutorial (1), workshop (13)) and national event (JNRR03 : National Journeys of Robotics Research). I was member of the ICARCV best paper committee (08, 10, 12, 14). I was "Regional Program Chair - Europe/ Africa" for MFI08, "Area Chair" for PSIVT2010 and ICARCV16, Workshop Co-chair for IAS14, International Advisory Committee member for CIS-RAM15, Program chair for International ARSO15. I was member of the steering committee of the *GdR Robotique*, and currently I am deputy director.

Since I was recruited in 1990, I have driven **four habilitation, 21 (+ 10 as co-supervisor) past Ph.d students, plus 4 (+ 3) in progress, 33 Master students and 5 Post-doc**. The result is a set of publications: **52 Journals (50 RI, 2RN), 210 Conferences (186 CI, 24 CN)**,

**47 workshops (46 WI, 1 WN), 6 book chapters.**

I have participated in 63 external phd juries (54 as a reviewer), and in 8 Habilitation juries (three time as reviewer). One of the paper has received the **Longuet-Higgins Honorable Mention Paper Award** (ECCV06), one as one of the **Best Industrial Paper Award** (Control06), another one as the **Best Interactive Paper Award Winners** (CDC06), and two other papers are finalist for the best paper in 2016 (EuComes and ICARCV).

I am granted of Prime d'Encadrement Doctoral de Recherche between 1996 and 2012. For the period 2012-2016, I got the Prime d'Excellence Scientifique. In 2016, I got again the Prime d'Encadrement Doctoral de Recherche for the next four years 2016-2020.

Since 2011, my teaching concerns:

- Machines and robots control (CM, TP): joint control, computed torque control, Introduction to non linear system control, sensor based control, visual servoing
- Manipulator Robots (CM, TP): geometrical modelling, kinematic modelling, trajectory generation, position and velocity control
- Mobile Robots (CM, TP): modelling and control
- Vision Based Control (2D, 3D, hybride) (CM, TP)
- Computer vision: geometrical vision, calibration, 3d pose estimation, tracking (CM,TP)
- Intelligent Transportation System (CM,TP)
- Autonomous navigation (platooning) (CM,TP)

At this date january 2017, scholar gives the following statistics:

- H-Index : 35
- Citations : 4164



## 4 Past research activities

### 4.1 Ph.D thesis: 1985-1987

My phd was done in collaboration with CEA (Atomic Energy Center) in the field of Digital 64 bit Floating Point Accelerator used in simulation of analog electronic design. Three main aspects were addressed during this Ph.d. The first one was the approximation of classical functions used in description of analog electronic design (log, exp, sin, cos, ...). The second one was dedicated to bit-slice processor architecture, and the third one was to optimize the implementation of such algorithm in a dedicated 32 bit slice architecture using floating point electronic devices coming from WEITEK.

### 4.2 Habilitation : 1990-1999

In 1990, I joined the LASMEA in GRAVIR under the responsibility of Professor Jean Gallice. My research interest mainly concerned the control aspect (mobile robot control using vision, and visual servoing for manipulator robot), and the necessary tools to develop in order to implement visual servoing in a real time closed loop control.

My first action (90-94) was to develop a parallel vision architecture dedicated to visual servoing applications. The name of this parallel system was : **Windis** (like Window Distributor). The main characteristics of this system were : windowing, DSP parallel computation, real-time... A collaboration with the INRIA project ICARE was established in this goal, and two prototypes of this parallel system were developed (one for each partners). A set of visual servoing applications were developed in both research centers. In Clermont-Ferrand, this architecture was used with a 6 d.o.f AFMA Cartesian robot. I set up the whole platform.

My second action (90-99) was to contribute to the visual servoing community. We evaluated classical 2D visual servoing approaches (particularly concerning the coupling between laser strip and camera (G. Motyl)) and developed new position-based visual servoing schemes. In addition, we addressed the problem of visual servoing with unknown objects (F. Berry).

My third action (93-99) was to use vision based control techniques in order to guide autonomously mobile robots. We investigated linearized methods and applied classical image based visual servoing (C. Debain). In parallel, we started to study robust controller ( $H_\infty$ ) in order to prevent from variation of camera tilt and camera height (D. Khadraoui). The application fields were robotic in agriculture and autonomous vehicle on highways.

Finally in 98, we just started our first application of autonomous guided vehicle in agriculture using a unique RTK-GPS (L. Cordesses).

## 5 Bibliography

### Accepted journals

Codes	References
ITRA96	Visual Servoing in Robotics Scheme Using a Camera/Laser-Stripe Sensor <i>D. Khadraoui, G. Motyl, P. Martinet, J. Gallice, F. Chaumette</i> <b>IEEE Transactions on Robotics and Automation</b> volume 12, n° 5, pp. 743-750, USA, October 1996
IJRR98	Vision Based Control in Driving Assistance of Agricultural Vehicles <i>D. Khadraoui, R. Rouveure, C. Debain, P. Martinet, P. Bonton, J. Gallice</i> <b>International Journal of Robotics Research</b> volume 17, n° 10, pp. 1040-1054, October 1998
AR00	Automatic Guided Vehicles: Robust Controller Design in Image Space <i>P. Martinet, C. Thibaud</i> <b>Autonomous Robots</b> volume 8, n° 1, pp. 25-42, January 2000
CEA00	A guidance-assistance system for agricultural vehicles <i>C. Debain, T. Chateau, M. Berducat, P. Martinet, P. Bonton</i> <b>Computers and Electronics in Agriculture (ELSEVIER)</b> volume 25, n° 1-2, pp. 29-51, January 2000
IEICE00	Real Time Visual Servoing Around a Complex Object <i>F. Berry, P. Martinet, J. Gallice</i> <b>IEICE Transaction on Information and Systems, Special issue on Machine Vision Application</b> pp 1358-1368, volume E83, number 7, July 2000
AR02	Automatic guidance of a farm tractor relying on a RTK GPS <i>B. Thuilot, C. Cariou, P. Martinet, M. Berducat</i> <b>Autonomous Robots</b> volume, n° 13, pp. 53-71, July 2002
RMP02	Robotic manipulation with stereo visual servoing <i>B. E. Cervera, P. Martinet, F. Berry</i> <b>Robotics and Machine Perception, SPIE International Group Newsletter</b> vol. 11, n° 1, pp. 3, July, 2002
IJRR03	Improving Image-Based Visual Servoing with 3D Features <i>E. Cervera, F. Berry, P. Martinet, A. Del Pobil</i> <b>International Journal of Robotics Research</b> volume 22, n. 10-11, pp. 821-839, October-November 2003
JESA03	Guidage automatique d'un engin agricole par GPS cinématique <i>C. Cariou, B. Thuilot, P. Martinet, M. Berducat,</i> <b>Journal Européen des Systèmes Automatisés, RS série JESA</b> volume 37, n. 3, pp. 405-433, July, 2003
IJIR04	Vision-based kinematic calibration of a H4 parallel mechanism: Practical accuracies <i>N. Andreff, P. Renaud, P. Martinet, F. Pierrot</i> <b>International Journal of Industrial Robot</b> volume 31, n° 3, pp. 273-283, 2004
ITRO05	Kinematic calibration of parallel mechanisms: a novel approach using legs observation <i>P. Renaud, N. Andreff, P. Martinet, G. Gogu</i> <b>IEEE Transactions on Robotics and Automation</b> volume 21, n° 4, pp. 529-538, USA, August 2005

Accepted journals (Continued)

Codes	References
TS05	<p>Asservissement visuel en vision omnidirectionnelle à partir de droites  <i>H. Hadj Abdelkader, Y. Mezouar, P. Martinet, F. Chaumette</i>  <b>Traitement du Signal, numéro spécial "Vision omnidirectionnelle"</b>                      volume 22, n° 5, pp. , France, October 2005</p>
CEP06	<p>Kinematic and Dynamic Identification of Parallel Mechanisms  <i>P. Renaud, A. Vivas, N. Andreff, P. Poignet, P. Martinet, F. Pierrot, O. Company</i>  <b>Control Engineering Practice</b>                      volume 14, n°9, pp. 1099-1109, 2006</p>
AR06	<p>High accuracy path tracking for vehicles in presence of sliding:                      Application to farm vehicle automatic guidance for agricultural tasks  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet,</i>  <b>Autonomous Robots, Kluwer Academic Publishers</b>                      volume 21, n° 1, pp. 79-97, August, 2006</p>
TRO06	<p>Unifying Kinematic Modeling, Identification and Control of a                      Gough-Stewart Parallel Robot into a Vision-based Framework  <i>N. Andreff, P. Martinet,</i>  <b>IEEE Transactions on Robotics and Automation</b>                      volume 22, n° 6, pp. 1077-1086, December, 2006</p>
JRAS06	<p>Trajectory Tracking Control of Farm Vehicles in Presence                      of Sliding  <i>H. Fang, R. Fan, B. Thuilot, P. Martinet,</i>  <b>Journal of Robotics and Autonomous Systems, Elsevier Science Publishers,</b>                      volume 54, n° 10, pp. 828-839, October, 2006</p>
EJC07	<p>Adaptive and Predictive Control for Off-road Mobile Robots                      Application to High Accuracy Path Tracking  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet,</i>  <b>in European Journal of Control, Hermes Sciences Publishers,</b>                      volume 13, n°4, pp. 419-439, 2007</p>
IJRR07 IJCv07	<p>Image-based visual servoing of a Gough-Stewart parallel                      manipulator using leg observations  <i>Andreff, T. Dallej, P. Martinet,</i>  <b>International Journal of Robotics Research. Special Issue on Vision and Robotics                      Joint with the International Journal on Computer Vision</b>                      volume 26, n°7, pp. 677-687, July 2007</p>
RA07	<p>Commande de véhicules en présence de glissement.                      Application au suivi de trajectoire pour les engins agricoles  <i>R. Lenain, B. Thuilot, M. Berducat, P. Martinet,</i>  <b>in Revue d'Auvergne, Alliance universitaire d'Auvergne,</b>                      Tome 121, n° 583-584, pp. 187-205, 2007</p>
AR08	<p>Indoor Navigation of a Non-holonomic Mobile Robot using a Visual Memory  <i>J. Courbon Y. Mezouar P. Martinet</i>  <b>in Autonomous Robots</b>                      volume 25, n° 3, pp. 253-266, October, 2008</p>
AR08	<p>Biologically-inspired 3D grasp synthesis based on visual exploration  <i>G. Recatala, E. Chinellato, A. P. Del Pobil, Y. Mezouar, P. Martinet</i>  <b>in Autonomous Robots</b>                      volume 25, n° 1-2, pp. 59-70, 2008</p>

Accepted journals (Continued)

Codes	References
TRO08	<p>Catadioptric Visual Servoing From 3D Straight Lines  <i>H. Hadj-Abdelkader, Y. Mezouar, P. Martinet, F. Chaumette,</i>  <b>in IEEE Transaction on Robotics</b>                      volume 24, n° 3, pp. 652-665, 2008</p>
AR08	<p>A tire stiffness backstepping observer dedicated to all-terrain vehicle rollover prevention  <i>N. Bouton, R. Lenain, B. Thuilot, P. Martinet,</i>  <b>in Advanced Robotics</b>                      volume 22, n° 12, pp. 1267-1285, 2008</p>
JISR08	<p>Robotic Execution of Everyday Tasks by means of External Vision/Force Control  <i>M. Prats, P. Martinet, A. P. del Pobil, S. Lee,</i>  <b>in Journal of Intelligent Service Robotics, Springer,</b>                      Vol. 1, n3, pp. 253-266, July 2008</p>
JMST08	<p>Damped least square based genetic algorithm with Gaussian distribution of damping factor singularity-robust inverse kinematics  <i>Le Minh Phuoc, P. Martinet, S. Lee, H. Kim,</i>  <b>in Journal of Mechanical Science and Technology, Springer,</b>                      Vol. 22, N 7, pp. 1330-1338, July 2008</p>
TRO09	<p>Omnidirectional visual-servo of a Gough-Stewart platform  <i>O. Tahri Y. Mezouar N. Andreff P. Martinet,</i>  <b>in IEEE Transaction on Robotics</b>                      volume 25, issue 1, pp. 178-183, February 2009</p>
IJRR09	<p>A review on dynamic control of parallel kinematic machine: theory and experiments  <i>F. Paccot, N. Andreff, P. Martinet,</i>  <b>in International Journal of Robotics Research,</b>                      volume 28, n° 3, pp. 395-416, 2009</p>
ITITS09	<p>Autonomous navigation of vehicles from a visual memory based on the use of generic camera model  <i>J. Courbon, Y. Mezouar, P. Martinet</i>  <b>in IEEE Transaction on Intelligent Transportation System,</b>                      volume 10, issue 3, pp. 392-402, September 2009</p>
LNEE09	<p>Compliant physical interaction based on external Vision/Force Control and tactile/Force combination  <i>M. Prats, P. Martinet, S. Lee, P. J. Sanz,</i>  <b>in Lecture Notes in Electrical Engineering, Springer</b>                      Editors: Lee, Sukhan; Ko, Hanseok; Hahn, Hernsoo                      volume 35, pp. , 2009</p>
JISR09	<p>Vision-based Self-Calibration and Control of Parallel Kinematic Mechanisms without Proprioceptive Sensing  <i>Nicolas Andreff, Philippe Martinet,</i>  <b>in Journal of Intelligent Service Robotics, Springer</b>                      volume 2, n° 2, pp. 61-112, April 2009</p>
JFR10	<p>Mixed kinematic and dynamic sideslip angle observer for accurate control of fast off-road mobile robots  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet,</i>  <b>in Journal of Field Robotics, Springer</b>                      volume 27, n° 2, pp. 181-196, March/April 2010</p>

Accepted journals (Continued)

Codes	References
CEP10	<p>Vision-based Navigation of Unmanned Aerial Vehicle  <i>J. Courbon, Y. Mezouar, L. Eck, P. Martinet,</i>  <b>in Special Issue on Aerial Robotics, Control Engineering Practice</b>                      volume 18, n° 7, pp. 789-799, July 2010</p>
CEP11	<p>Robust anti-sliding control of autonomous vehicles in presence of lateral disturbances  <i>H. Fang, L. Dou, J. Chen, R. Lenain, B.Thuilot, P. Martinet,</i>  <b>in Control Engineering Practice</b>                      volume 19, n° 5, pp. 468-478, May 2011</p>
MGSJ12	<p>Map partitioning to approximate an exploration strategy in mobile robotics  <i>G. Lozenguez, L. Adouane, A. Beynier, A.I. Mouaddib and P. Martinet,</i>  <b>in Multiagent and Grid Systems Journal, IOS Press publisher</b>                      Vol. 8, N 3, pp. 275-288, 2012</p>
AMM12	<p>2D Legendre Moments-based Visual Control  <i>A. Yeremou Tamtsia, Y. Mezouar, P. Martinet, H. Djalo, E. Tonye,</i>  <b>in Applied Mechanics and Materials</b>                      Vol. 162, pp 487-496, 2012</p>
AR12	<p>Evaluation of the unified model on the sphere for                      fisheye cameras in robotic applications  <i>J. Courbon, Y. Mezouar, P. Martinet,</i>  <b>in Advanced Robotics</b>                      Vol. 26, N 8-9, pp. 947-967, May 2012</p>
IJRR12	<p>Dynamic visual servoing from sequential regions of interest acquisition  <i>R. Dahmouche, N. Andreff, Y. Mezouar, O. Ait-Aider, P. Martinet,</i>  <b>in International Journal of Robotics Research,</b>  <b>Special Issue on Robot Vision, Sage Publications,</b>                      Vol. 31, N4, pp. 520-537 , April 1st, 2012</p>
MMT13	<p>Linear Dynamic Modeling of Parallel Kinematic Manipulators                      from Observable Kinematic Elements  <i>E. Ozgur, N. Andreff, P. Martinet,</i>  <b>in Mechanism and Machine Theory,</b>                      Vol. 69, pp 7389, November, 2013</p>
RAS14	<p>Stable Navigation in Formation for a Multi-robot                      System Based on a Constrained Virtual Structure  <i>A. Benzerrouk, L. Adouane, P. Martinet,</i>  <b>in Robotics and Autonomous Systems</b>                      Vol. 62, N12, pp.1806-1815, December 2014</p>
MMT14	<p>Dynamic modeling of parallel robots with flexible platforms  <i>P. Long, W. Khalil, P. Martinet,</i>  <b>in Mechanism Machine and Theory</b>                      Vol. 81, page 21-35, November, 2014</p>
RAM14	<p>Adaptive and predictive formation control of autonomous                      vehicles: application to mobile robot cooperation  <i>A. Guillet, R. Lenain, B. Thuilot, P. Martinet,</i>  <b>in Special issue on Perception and Navigation for Autonomous Vehicles</b>  <b>IEEE Robotics and Automation Magazine</b>                      21(1):28-39, March, 2014</p>

Accepted journals (Continued)

Codes	References
CEP15	<p>Enlarging Parallel Robot Workspace through Type-2 Singularity Crossing  <i>G. Pagis, N. Bouton, S. Briot, P. Martinet,</i>  <b>in Control Engineering Practice</b>            Vol. 39, pp. 1-11, June 2015</p>
LNEE15	<p>Cognitive Modeling for Automating Learning in Visually-Guided Manipulative Tasks  <i>H. Ferreira Chame, P. Martinet,</i>  <b>in Informatics in Control, Automation and Robotics</b>  <b>Springer International Publishing Switzerland</b>  <b>Lecture Notes on Electrical Engineering</b>            Vol. 325, Chapter 2, pp. 37-53, 2015</p>
ITSM15a	<p>Guest Editorial on Perception and Planning for Autonomous Vehicles  <i>C. Stiller, P. Martinet, C. Laugier, U. Nunes, P. Bonnifait,</i>  <b>Special issue on Perception and Planning for Autonomous Vehicles</b>  <b>IEEE Intelligent Transportation Systems Magazine</b>            Vol. 7, N1, pp. 6-7, spring 2015</p>
ITSM15b	<p>The flatbed platoon towing model for safe and dense platooning on highways  <i>A. Ali, G. Garcia, P. Martinet,</i>  <b>Special issue on Perception and Planning for Autonomous Vehicles</b>  <b>IEEE Intelligent Transportation Systems Magazine</b>            Vol. 7, N1, pp. 58-68, spring 2015</p>
TRO15	<p>How the Concept of Hidden Robot Contributes to the            Analysis of the Controllability of Parallel Robots            in Advanced Visual Servoing Techniques?  <i>S. Briot, P. Martinet, V. Rosenzweig,</i>  <b>in IEEE Transactions on Robotics</b>            Vol.31, N6, pp. 1337-1352, 2015</p>
MSD16	<p>Degeneracy Conditions of the Dynamic Model of Parallel Robots  <i>S. Briot, G. Pagis, N. Bouton, P. Martinet,</i>  <b>Multibody System Dynamics</b>            Vol. 37, Issue 4, pp. 371-412, August 2016</p>
JIRS16	<p>The Robot Programming Network  <i>E. Cervera, P. Martinet, R. Marin, A. A. Moughlby,</i>  <i>A. P. del Pobil, J. Alemany, R. Esteller, G. Casa,</i>  <b>Journal of Intelligent &amp; Robotic Systems</b>            81(1): 77-95, January 2016</p>
RA-L16	<p>An Enhanced Unified Camera Model  <i>B. Khomutenko, G. Garcia, P. Martinet,</i>  <b>in IEEE Robotics &amp; Automation Letters</b>            Vol. 1, Issue 1, pp. 137-144, 2016</p>
AR16	<p>Punctual Versus Continuous Auction Coordination for            Multi-Robot and Multi-Task Topological Navigation  <i>G. Lozenguez, L. Adouane, A. Beynier, A.I. Mouaddib, P. Martinet,</i>  <b>Autonomous robot</b>            Vol. 40, Issue 4, pp 599-613, April 2016</p>

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Codes	References
MMT16	<p style="text-align: center;">Minimal representation for the control of parallel robots via leg observation considering a hidden robot model <i>S. Briot, V. Rosenzweig, P. Martinet, E. Ozgur, N. Bouton,</i> <b>Mechanism and Machine Theory</b> 106: 115-147, December 2016</p>
RA-L17	<p style="text-align: center;">Determining the Singularities for the Observation of Three Image Lines <i>S. Briot, P. Martinet, F. Chaumette,</i> <b>Accepted in IEEE Robotics &amp; Automation Letters</b> Vol. , Issue , pp. , 2017</p>
TRO17	<p style="text-align: center;">Revisiting the Determination of the Singularity Cases in the Visual Servoing of Image Points through the Concept of Hidden Robot <i>S. Briot, F. Chaumette, , P. Martinet</i> <b>Accepted in IEEE Transactions on Robotics</b> Vol. 33, Issue 2, pp. , 2017</p>

## Book chapters

Codes	References
HERMES00	<p>Aide au guidage de véhicules agricoles  <i>C. Debain, M. Berducat, P. Martinet, P. Bonton</i>  <b>Applications non manufacturières de la robotique, Systèmes automatisés, Information - Commande - Communications, Hermes Sciences</b>                      ISBN 2-7462-0165-8, sous la direction de Pierre Dauchez, pp. 64-75, 2000</p>
NOVA06	<p>Accurate gps-based guidance of agricultural vehicles operating on slippery grounds  <i>B. Thuilot, R. Lenain, P. Martinet, C. Cariou</i>  <b>Chapter 6 in Focus on Robotics Research, pp. 185-239,</b>                      John Liu editor, Nova Science Publishers, ISBN: 1-59454-594-4, 2006</p>
ITECH07	<p>Omnidirectional Vision-Based Control From Homography  <i>Y. Mezouar, H. Hadj Abdelkader, P. Martinet,</i>  <b>in Vision Systems Applications, Edited by : Goro Obinata and Ashish Dutta</b>                      I-Tech Education and Publishing, ISBN 978-3-902613-01-1,                      Vienna, Austria, Chapter 21, pp. 387-408, June 2007</p>
SPRINGER10	<p>Points based visual servoing with central cameras  <i>H. Hadj Abdelkader, Y. Mezouar, P. Martinet,</i>  <b>in Visual Servoing via Advanced Numerical Methods,</b>  <b>Publisher : Springer, Edited by: Graziano Chesi and Koichi Hashimoto,</b>                      17, Lecture Notes in Control and Information Sciences, 401/2010: 231-313</p>
SPRINGER12	<p>Vision-Based Topological Navigation: An Implicit Solution to Loop Closure  <i>Y. Mezouar, J. Courbon, P. Martinet,</i>  <b>in Handbook on Intelligent Vehicle,</b>  <b>Publisher : Springer-Verlag, Edited by: Azim Eskandarian,</b>                      Chap. 53, pp. 1355-1382, ISBN-10: 0857290843, February 15, 2012</p>
SPRINGER13	<p>Model Based Visual Servoing Tasks on an Autonomous Humanoid Robot  <i>A. A. Moughlbay, E. Cervera, P. Martinet,</i>  <b>in Frontiers of Intelligent Autonomous Systems</b>  <b>Publisher : Springer-Verlag</b>                      pp. 149-162, 2013</p>

## Internal reports

Codes	References
RR898	<p>Visual Servoing in Robotics Scheme Using a Camera/Laser-Stripe Sensor  <i>D. Khadraoui, G. Motyl, P. Martinet, J. Gallice, F. Chaumette</i>  <b>IRISA, Internal Research Report, n° 898 (26 pages)</b></p>
HDR99	<p>Asservissement visuel  <i>P. Martinet</i>  <b>Habilitation à diriger des Recherches</b>                      January the 20<sup>th</sup>, 1999</p>
ISR00	<p>Stereovision in Visual Servoing Applications  <i>P. Martinet, E. Cervera</i>  <b>Robotic Intelligence Laboratory, Internal Scientific Report</b>                      ISR2000-01, University of Jaume I, Castelló, SPAIN, 2000, (68 pages)</p>



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Codes	References
ICAR93	<p>Visual Servoing with respect to a Target Using a Camera/Laser-Stripe Sensor <i>G. Motyl, P. Martinet, J. Gallice</i></p> <p style="text-align: center;"><b>International Conference on Advanced Robotics</b> ICAR'93 pp 591-596, Tokyo, Japon, 1-2 November 1993</p>
STS94	<p>Real Time 3D Location of a Car from Three Characteristic Points observed in a Video Image Sequence <i>E. Montagne, J. Alizon, P. Martinet, J. Gallice</i></p> <p style="text-align: center;"><b>7<sup>th</sup> IFAC/IFORS Symposium on Transportation Systems</b> STS94, pp 385-390, Tianjin, China, August 1994</p>
QCAV95	<p>Asservissement Visuel d'Engins Agricoles par Commande Référencée Vision <i>C. Debain, M. Derras, D. Khadraoui, P. Martinet, P. Bonton</i></p> <p style="text-align: center;"><b>International Conference on Quality Control by Artificial Vision</b> QCAV'95, pp 250-260, Le Ceusot, France, 17-19 May 1995</p>
IAV95	<p>A Global Road Scene Analysis System for Autonomous Vehicles <i>F. Jurie, P. Martinet, J. Gallice</i></p> <p style="text-align: center;"><b>n<sup>nd</sup> IFAC Conference on Intelligent Autonomous Vehicles</b> IAV'95, pp 19-24, Helsinki, Finland, 12-14 June 1995</p>
ICIA95	<p>Linear Control of High Speed Vehicle in Image Space <i>D. Khadraoui, P. Martinet, J. Gallice</i></p> <p style="text-align: center;"><b>2<sup>nd</sup> International Conference on Industrial Automation</b> ICIA'95, vol. 2, pp 517-522, Nancy, France, 7-9 June 1995</p>
ICRA96	<p>Use of the First Derivative of Geometric Features in Visual Servoing <i>P. Martinet, F. Berry, J. Gallice</i></p> <p style="text-align: center;"><b>IEEE International Conference on Robotics and Automation</b> ICRA'96, vol. 4, pp 3413-3419, Minneapolis, Minnesota, USA, 22-28 April 1996</p>
WAC96	<p>Vision Based Control Law using 3D Visual Features <i>P. Martinet, J. Gallice, D. Khadraoui</i></p> <p style="text-align: center;"><b>World Automation Congress - Robotics and Manufacturing Systems</b> WAC'96, vol. 3, pp 497-502, Montpellier, France, 28-30 May 1996</p>
SYROCO97	<p>Controller Synthesis Applied to Automatic Guided Vehicles <i>P. Martinet, D. Khadraoui, C. Thibaud, J. Gallice</i></p> <p style="text-align: center;"><b>5<sup>th</sup> IFAC Symposium on Robot Control</b> SYROCO'97, Vol. 3, pp 735-742, Nantes, France, 3-5 September 1997</p>
IROS97	<p>Trajectory Generation by Visual Servoing <i>F. Berry, P. Martinet, J. Gallice</i></p> <p style="text-align: center;"><b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b> IROS'97, Vol. 3, pp 1066-1072, Grenoble, France, 7-11 September 1997</p>
IAV98	<p>First results using robust controller synthesis in automatic guided vehicles applications <i>P. Martinet, C. Thibaud, D. Khadraoui, J. Gallice</i></p> <p style="text-align: center;"><b>3<sup>rd</sup> IFAC Symposium on Intelligent Autonomous Vehicles</b> IAV'98, Vol. 1, pp 204-209, Madrid, Spain, 25-27 March 1998</p>
AVCS98	<p>Robust controller synthesis in automatic guided vehicles applications <i>P. Martinet, C. Thibaud, B. Thuilot, J. Gallice</i></p> <p style="text-align: center;"><b>International Conference on Advances in Vehicle Control and Safety</b> AVCS'98, pp 395-401, Amiens, France, 1-3 July 1998</p>

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Codes	References
AVCS98	<p style="text-align: center;">A real time car tracker  <i>F. Marmoiton, F. Collange, P. Martinet, J.P. Derutin</i>  <b>International Conference on Advances in Vehicle Control and Safety</b>            AVCS'98, pp 282-287, Amiens , France , 1-3 July 1998</p>
FIR98	<p style="text-align: center;">Automatic Guided Vehicles in Agricultural and Green Space Fields  <i>P. Martinet, P. Bonton, J. Gallice, M. Berducat, C. Debain, R. Rouveure</i>  <b>4<sup>th</sup> French - Israelei Symposium on Robotics</b>            FIR'98, pp. 87-92, Besançon, France, 13-14 May 1998</p>
ISARC99	<p style="text-align: center;">GPS-based control of a land vehicle  <i>L. Cordesses, P. Martinet, B. Thuilot, M. Berducat</i>  <b>16<sup>th</sup> IAARC/IFAC/IEEE International Symposium on Automation and Robotics in Construction</b>            ISARC'99, pp 41-46, Madrid, Spain, 22-24 September 1999</p>
ION-GPS99	<p style="text-align: center;">CP-DGPS based combine harvester control without orientation sensor  <i>L. Cordesses, C. Cariou, P. Martinet, C. Thibaud</i>  <b>ION-GPS Meeting</b>            ION-GPS'99, CDROM, pp 2041-2046, Nashville, Tennessee, USA, 14-17 September 1999</p>
ECC99	<p style="text-align: center;">Comparison of Visual servoing Techniques: Experimental Results  <i>P. Martinet</i>  <b>European Control Conference</b>            ECC'99, CDROM, papier 1059-4, Karlsruhe, Germany, 31 August - 3 September 1999</p>
IROS99	<p style="text-align: center;">Position based visual servoing using a nonlinear approach  <i>P. Martinet, J. Gallice</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>            IROS'99, Vol. 1, pp 531-536, Kyongju, Korea, 17-21 October 1999</p>
IROS99	<p style="text-align: center;">Visual feedback in camera motion generation: Experimental results  <i>F. Berry, P. Martinet, J. Gallice</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>            IROS'99, Vol. 1, pp 513-518, Kyongju, Korea, 17-21 October 1999</p>
IROS99	<p style="text-align: center;">Visual Servoing with Indirect Image Control and a Predictable Camera Trajectory  <i>E. Cervera, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>            IROS'99, Vol. 1, pp 381-386, Kyongju, Korea, 17-21 October 1999</p>
ICAR99	<p style="text-align: center;">Combining Pixel and Depth Information in Image-Based Visual Servoing  <i>E. Cervera, P. Martinet</i>  <b>9<sup>th</sup> International Conference on Advanced Robotics</b>            ICAR'99, pp 445-450, Tokyo, Japan, 25-27 October 1999</p>
IROS00	<p style="text-align: center;">Turning around an unknown object using visual servoing  <i>F. Berry, P. Martinet, J. Gallice</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>            IROS'2000, pp 257-262, vol. 1, Takamatsu, Japan, 1-4 November 2000</p>
AGENG00	<p style="text-align: center;">Vehicle guidance using CP-DGPS : comparison of two heading estimators  <i>L. Cordesses, C. Cariou, P. Martinet, M. Berducat</i>  <b>Agricultural Engineering Conference</b>            Silsoe Research Institute, University of Warwick, England, 2-7 July 2000</p>

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Codes	References
SYROCO00	<p style="text-align: center;">Curved path following of a farm tractor using a CP-DGPS  <i>L. Cordesses, B. Thuilot, P. Martinet, C. Cariou</i>  <b>6<sup>th</sup> IFAC Symposium on Robot Control</b>                      SYROCO'2000, pp 13-18, vol. 1, Vienne, Autriche, 21-23 September 2000</p>
ICRA01	<p style="text-align: center;">Stacking Jacobians Properly in Stereo Visual Servoing  <i>P. Martinet, E. Cervera</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'01, pp 717 -722, vol.1, Seoul, Korea, 23-25 May 2001</p>
ICRA01	<p style="text-align: center;">Object Tracking with a Pan Tilt Zoom Camera application to car driving assistance  <i>X. Clady, F. Collange, F. Jurie, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'01, pp 1653 -1658, vol.2, Seoul, Korea, 23-25 May 2001</p>
ISCCV01	<p style="text-align: center;">Tracking with a pan-tilt-zoom camera for an ACC system  <i>X. Clady, F. Collange, F. Jurie, P. Martinet</i>  <b>12<sup>th</sup> IAPR Scandinavian Conference on Computer Vision</b>                      ISCCV'01, pp 561-566, Bergen, Norway, June 2001.</p>
ECPA01	<p style="text-align: center;">CP-DGPS farm tractor control along curved path  <i>C. Cariou, L. Cordesses, B. Thuilot, P. Martinet</i>  <b>3<sup>rd</sup> European Conference on Precision Agriculture</b>                      ECPA'2001, Montpellier, France, 18-21 june 2001</p>
IROS01	<p style="text-align: center;">Automatic guidance of a farm tractor along curved paths, using a unique CP-DGPS  <i>B. Thuilot, C. Cariou, L. Cordesses, P. Martinet</i>  <b>IEEE/RSJ International conference on Intelligent Robots and Systems</b>                      pp 674 -679, vol.2 , Maui , Hawaii , 29 october - 3 november 2001</p>
ICRA02	<p style="text-align: center;">Is 3D useful in stereo visual servoing?  <i>P. Martinet, F. Berry, E. Cervera</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'02, pp 1630-1635, Washington DC, USA, 13-18 May 2002</p>
ICRA02	<p style="text-align: center;">Position based visual servoing : keeping the object in the field of vision  <i>B. Thuilot, P. Martinet, L. Cordesses, J. Gallice</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'02, pp 1624-1629, Washington DC, USA, 13-18 May 2002</p>
IDMME02	<p style="text-align: center;">Dynamic Identification of Mechanisms using a Robust Design of Experiments  <i>P. Renaud, N. Andreff, G. Gogu, P. Martinet</i>  <b>International Conference on Integrated Design and Manufacturing in Mechanical Engineering</b>                      IDMME'02, ISBN 2-9518169-0-1, Clermont-Fd, France, 14-16 May 2002</p>
IFAC02	<p style="text-align: center;">Image Based stereo visual servoing : 2D vs 3D visual features  <i>E. Cervera, F. Berry, P. Martinet</i>  <b>International IFAC Conference</b>                      IFAC'02, pp , Barcelona, Spain, 22-26 July 2002</p>
IROS02	<p style="text-align: center;">Experimental Evaluation of a Vision-Based Measuring Device                      for Parallel Machine-Tool Calibration  <i>P. Renaud, N. Andreff, M. Dhome, P. Martinet</i>  <b>IEEE/RSJ International conference on Intelligent Robots and Systems</b>                      IROS'02, pp 1868-1873, Lausanne, Switzerland, October, 2002, ISBN 0-7803-7399-5</p>

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Codes	References
ISR02	<p>Active vision based on CMOS camera : an active detector approach  <i>P. Chalimbaud , F. Berry , P. Martinet</i>  <b>International Symposium on Robots</b>                      ISR'02, CDROM , Stockholm, Sweden, October 7-11th, 2002</p>
ICRA03	<p>Adaptive control for car like vehicles guidance relying on RTK GPS:                      rejection of sliding effects in agricultural applications  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'03, pp 115-120, Taipei, Taiwan, September 14-19th, 2003, ISBN 0-7803-7737-0</p>
ICRA03	<p>Vision-based Kinematic Calibration of a H4 parallel mechanism  <i>P. Renaud, N. Andreff, F. Marquet, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'03, pp 1191-1196, Taipei, Taiwan, September 14-19th, 2003, ISBN 0-7803-7737-0</p>
IROS03	<p>Rejection of sliding effects on car like robot control:                      application to farm vehicle guidance using a single RTK-GPS sensor  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>IEEE/RSJ International conference on Intelligent Robots and Systems</b>                      IROS'03, pp 3811-3816, Las Vegas, Nevada, USA, October 27-31th, 2003</p>
SYSID03	<p>On Vision-based Kinematic Calibration of n-leg parallel mechanisms  <i>P. Renaud, N. Andreff, G. Gogu , P. Martinet</i>  <b>13th IFAC Symposium on System Identification</b>                      SYSID'03, Rotterdam, Pays-Bas, August 2003</p>
ICAR03	<p>Stereo Visual Servoing with Oriented Blobs  <i>E. Cervera, F. Berry, P. Martinet</i>  <b>11<sup>th</sup> IEEE International Conference on Advanced Robotics</b>                      ICAR'03, pp 977-982, Coimbra, Portugal, June 30th-July 4th, 2003</p>
IV03	<p>Cars detection and tracking with a vision sensor  <i>X. Clady, F. Collange, F. Jurie, P. Martinet</i>  <b>IEEE Intelligent Vehicles Symposium</b>                      IV'03, pp 593-598, Columbus, Ohaio, USA, June 9-11th, 2003</p>
IFTOMM03	<p>On Vision-based Kinematic Calibration of a Stewart-Gough Platform  <i>P. Renaud, N. Andreff, G. Gogu, P. Martinet</i>  <b>IFTOMM World Congress in Mechanism and Machine Science</b>                      IFTOMM'03, pp , Tianjin, Chine, delayed in April 2004</p>
ISR04	<p>Paracatadioptric visual servoing from lines  <i>H. Hadj Abdelkader, Y. Mezouar, P. Martinet</i>  <b>35<sup>th</sup> International Symposium on Robotics</b>                      ISR'04, paper 117, Paris, France, March 23-26th, 2004</p>
ISR04	<p>Non-Linear control for car like mobile robots in presence of sliding :                      Application to guidance of farm vehicles using a single RTK-GPS  <i>P. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>35<sup>th</sup> International Symposium on Robotics</b>                      ISR'04, paper 033, Paris, France, March 23-26th, 2004</p>
ISR04	<p>Indoor Navigation of Mobile Robot: An Image Based Approach  <i>G. Blanc, Y. Mezouar, T. Chateau, P. Martinet</i>  <b>35<sup>th</sup> International Symposium on Robotics</b>                      ISR'04, paper 010, Paris, France, March 23-26th, 2004</p>

## International Conferences (Continued)

Codes	References
ICRA04	<p style="text-align: center;">A new nonlinear control for vehicle in sliding conditions  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'04, pp 4381-4386, New-Orleans, USA, April 26th-May 1st, 2004</p>
ICRA04	<p style="text-align: center;">Combining end-effector and legs observation for kinematic calibration of parallel mechanisms  <i>P. Renaud, N. Andreff, F. Pierrot, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'04, pp 4116-4121, New-Orleans, USA, April 26th-May 1st, 2004</p>
OMNIVIS04	<p style="text-align: center;">Visual Servoing from 3D Straight Lines with Central Catadioptric Cameras  <i>Y. Mezouar, H. Hadj Abdelkader, P. Martinet, F. Chaumette</i>  <b>The fifth Workshop on Omnidirectional Vision, Camera Networks and Non-classical cameras</b>                      OMNIVIS'04, pp , Prague, Czech Republic, May 16th, 2004</p>
IAV04	<p style="text-align: center;">Autonomous image based navigation in indoor environment  <i>G. Blanc, O. Ait Ader, Y. Mezouar, T. Chateau, P. Martinet</i>  <b>The fifth IFAC Symposium on Intelligent Autonomous Vehicles</b>                      IAV'04, pp , Instituto Superior Técnico, Lisbon, Portugal, July 5-7th, 2004</p>
IAV04	<p style="text-align: center;">Accurate automatic guidance of an urban electric vehicle relying on a kinematic GPS sensor  <i>B. Thuilot, J. Bom, F. Marmoiton, P. Martinet</i>  <b>The fifth IFAC Symposium on Intelligent Autonomous Vehicles</b>                      IAV'04, pp , Instituto Superior Técnico, Lisbon, Portugal, July 5-7th, 2004</p>
ISRA04	<p style="text-align: center;">An image driven vision based control framework for wheeled mobile robots  <i>G. Blanc, Y. Mezouar, P. Martinet</i>  <b>The International Symposium on Robotics and Automation</b>                      ISRA'04, pp 507-512, Queretaro, Mexico, August 25-27th, 2004</p>
ISRA04	<p style="text-align: center;">Sliding mode control of automatic guidance farm vehicles in the presence of sliding  <i>F. Hao, R. Lenain, B. Thuilot, P. Martinet</i>  <b>The International Symposium on Robotics and Automation</b>                      ISRA'04, pp 582-587, Queretaro, Mexico, August 25-27th, 2004</p>
IROS04	<p style="text-align: center;">Adaptive and predictive nonlinear control for sliding vehicle guidance :                      Application to trajectory tracking of farm vehicles relying on a single RTK GPS  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'04, pp 455-460, Sendai, Japan, September 28 October 2, 2004</p>
IROS04	<p style="text-align: center;">Adaptive Towards a reliable vision-based mobile robot formation control  <i>P. Renaud, E. Cervera, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'04, pp 3176-3181, Sendai, Japan, September 28 October 2, 2004</p>
IROS04	<p style="text-align: center;">Central Catadioptric Visual Servoing From 3D Straight Lines  <i>Y. Mezouar, H. Hadj Abdelkader, P. Martinet, F. Chaumette</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'04, pp 343-348, Sendai, Japan, September 28 October 2, 2004</p>
AISTA04	<p style="text-align: center;">Implementation of a vision based navigation framework on a house mobile robot prototype  <i>G. Blanc, T. Chateau, Y. Mezouar, O. Ait-Ader, P. Martinet,</i>  <i>L. Eck, V. Moreau, A. Nadim,</i>  <b>International Conference on Advances in Intelligent Systems Theory and Applications</b>                      AISTA'04, ISBN 2-9599776-8-8 , Kirchberg, Luxembourg, November 15-18th, 2004</p>

## International Conferences (Continued)

Codes	References
ICRA05	<p style="text-align: center;">Image-based Control of Mobile Robot with Central Catadioptric Cameras  <i>H. Hadj Abdelkader, Y. Mezouar, N. Andreff, P. Martinet</i>  <b>accepted in IEEE International Conference on Robotics and Automation</b>                      ICRA'05, pp. 3533-3538, Barcelona, Spain, April 18-22th, 2005</p>
ICRA05	<p style="text-align: center;">Nonlinear control for urban vehicles platooning, relying upon a unique kinematic GPS  <i>J. Bom, B. Thuilot, F. Marmoiton, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'05, pp. 4149-4154, Barcelona, Spain, April 18-22th, 2005</p>
ICRA05	<p style="text-align: center;">Robust Adaptive Control of Automatic Guidance of Farm Vehicles in the Presence of Sliding  <i>R. F. Hao, R. Lenain, B. Thuilot, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'05, pp. 3113-3118, Barcelona, Spain, April 18-22th, 2005</p>
ICRA05	<p style="text-align: center;">Model Predictive Control of vehicle in presence of sliding : Application to farm vehicles path tracking  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'05, pp. 897-902, Barcelona, Spain, April 18-22th, 2005</p>
ICRA05	<p style="text-align: center;">Vision-based control of a Gough-Stewart parallel mechanism using legs observation  <i>N. Andreff, A. Marchadier, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'05, pp. 2546-2551, Barcelona, Spain, April 18-22th, 2005</p>
ICRA05	<p style="text-align: center;">Indoor navigation of a wheeled mobile robot along visual routes  <i>G. Blanc, Y. Mezouar, P. Martinet</i>  <b>IEEE International Conference on Robotics and Automation</b>                      ICRA'05, pp. 3365-3370, Barcelona, Spain, April 18-22th, 2005</p>
IROS05	<p style="text-align: center;">2 1/2 D Visual Servoing with Central Catadioptric Cameras  <i>H. Hadj Abdelkader, Y. Mezouar, N. Andreff, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'05, pp. 2342-2347, Edmonton, Canada, August 2-6th, 2005</p>
IROS05	<p style="text-align: center;">Trajectory Tracking Control of Farm Vehicles in Presence of Sliding  <i>H. Fang, R. Lenain, B. Thuilot, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'05, pp. 1720-1725, Edmonton, Canada, August 2-6th, 2005</p>
IROS05	<p style="text-align: center;">A Global Control Strategy for Urban Vehicles Platooning relying on Nonlinear Decoupling Laws  <i>J. Bom, B. Thuilot, F. Marmoiton, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'05, pp. 1995-2000, Edmonton, Canada, August 2-6th, 2005</p>
ICINCO05	<p style="text-align: center;">Visually Servoing a Gough-Stewart Parallel Robot Allows for Reduced and                      Linear Kinematic Calibration  <i>N. Andreff, P. Martinet</i>  <b>2nd International Conference on Informatics in Control, Automation and Robotics</b>                      ICINCO'05, vol. 3, pp. 119-124, Barcelona, Spain, September 14-17th, 2005</p>
ISCFS05	<p style="text-align: center;">Spatial Optimization of Fertilizer Application by Centrifugal Spreading  <i>T. Virin, E. Piron, J. Koko, P. Martinet, M. Berducat</i>  <b>1st International Symposium on Centrifugal Fertiliser Spreading</b>                      ISCFS'05, pp. 3-5, Leuven, Belgium, 15-16 September, 2005</p>

## International Conferences (Continued)

Codes	References
ISMCR05	Control Assistance of a Mobile Robot Navigating into an Encumbered Environment <i>G. Blanc, J. Roblet, Y. Mezouar, P. Martinet</i> <b>15th International Symposium on Measurement and Control in Robotics</b> ISMCR'05, pp. , Brussels, Belgium, Royal Military Academy, November 8-10th, 2005
ICVS06	Pose and velocity computing of fast moving object using a single view from rolling shutter camera <i>O. Ait Aider, N. Andreff, J.M. Lavest, P. Martinet</i> <b>4th IEEE International Conference on Computer Vision Systems</b> ICVS'06, pp., New-York City, New-york, USA, January 5-7th, 2006
BIOROB06	3D Grasp Synthesis Based on a Visual Cortex Model <i>G. Recatala Ballester, Eris Chinellato, A. Del Pobil, Y. Mezouar, P. Martinet</i> <b>1st IEEE / RAS-EMBS International Conference</b> <b>Biomedical Robotics and Biomechatronics</b> BioRob'06, pp. , Pisa, Italy, February 20-22th, 2006
EUCOMES06	Projective Kinematic Modelling of Some Parallel Manipulators for Vision-based Control Purposes <i>N. Andreff, P. Martinet</i> <b>1st European Conference on Mechanism Science</b> EUCOMES'06, pp., Obergurgl, Austria February 21-26th, 2006
ICRA06	Simultaneous Pose and Velocity Measurement by Vision for High-Speed Robots <i>O. Ait Aider, N. Andreff, P. Martinet, J.M. Lavest</i> <b>IEEE International Conference on Robotics and Automation</b> ICRA'06, pp. 3742-3747, Orlando, Florida, USA, Mai 15-19th, 2006
ICRA06	Sideslip angles observer for vehicle guidance in sliding conditions <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i> <b>IEEE International Conference on Robotics and Automation</b> ICRA'06, pp. 3183-3188, Orlando, Florida, USA, Mai 15-19th, 2006
ICRA06	Omnidirectional visual servoing from polar lines <i>H. Hadj Abdulkader, Y. Mezouar, N. Andreff, P. Martinet</i> <b>IEEE International Conference on Robotics and Automation</b> ICRA'06, pp. 2385-2390, Orlando, Florida, USA, Mai 15-19th, 2006
ECCV06	Simultaneous Object Pose and Velocity Computation Using a Single View from a Rolling Shutter Camera <i>O. Ait Aider, N. Andreff, J.M. Lavest, P. Martinet</i> <b>9th European Conference on Computer Vision</b> ECCV'06, pp. 56-68, Graz, Austria May 7-13th, 2006
ICINCO06	On the use of optimization methods for the minimization of fertilizer application error with centrifugal spreaders <i>T. Virin, J. Koko, E. Piron, P. Martinet</i> <b>3rd International Conference on Informatics in Control,</b> <b>Automation and Robotics</b> ICINCO'06, pp. , Setubal, Portugal, 1-5 August, 2006
ICINCO06	Pattern tracking and visual servoing for indoor mobile environment mapping and autonomous navigation <i>O. Ait Aider, G. Blanc, Y. Mezouar, P. Martinet</i> <b>3rd International Conference on Informatics in Control,</b> <b>Automation and Robotics</b> ICINCO'06, pp. , Setubal, Portugal, 1-5 August, 2006

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Codes	References
ICINCO06	<p style="text-align: center;">A path planning strategy for obstacle avoidance <i>G. Blanc, Y. Mezouar, P. Martinet</i></p> <p style="text-align: center;"><b>3rd International Conference on Informatics in Control, Automation and Robotics</b> ICINCO'06, pp. , Setubal, Portugal, 1-5 August, 2006</p>
MMAR06	<p style="text-align: center;">A Novel Approach to Vision-Based Computed Torque Control of Parallel Robots <i>O. Ait Aider, F. Paccot, N. Andreff, P. Martinet</i></p> <p style="text-align: center;"><b>12th IEEE International Conference on Methods and Models in Automation and Robotics</b> MMAR'06, pp. , Miedzyzdroje, Poland, August 28 - 31, 2006</p>
MMAR06	<p style="text-align: center;">Homography based visual servoing with omnidirectional cameras: the cases of points and lines <i>H. Hadj Abdelkader, Y. Mezouar, N. Andreff, P. Martinet</i></p> <p style="text-align: center;"><b>12th IEEE International Conference on Methods and Models in Automation and Robotics</b> MMAR'06, pp. , Miedzyzdroje, Poland, August 28 - 31, 2006</p>
AGENG06	<p style="text-align: center;">Minimization of Fertilizer Application Error due to Centrifugal Spreading <i>T. Virin, J. Koko, E. Piron, P. Martinet</i></p> <p style="text-align: center;"><b>Proceedings of the Agricultural Engineering for a Better World</b> AGENG'06, pp. , Bonn, Germany, 3-7 September, 2006</p>
SYROCO06	<p style="text-align: center;">Image-based Visual Servoing of Gough-Stewart Parallel Manipulators using Legs Observation <i>N. Andreff, T. Dallej, P. Martinet</i></p> <p style="text-align: center;"><b>8th International IFAC Symposium on Robot Control</b> SYROCO'06, pp. , University of Bologna, Italy, September 6 - 8, 2006</p>
CONTROLO06	<p style="text-align: center;">Image-based Visual Servoing of Gough-Stewart Parallel Manipulators using Legs Observation <i>T. Virin, J. Koko, E. Piron, P. Martinet, M. Berducat</i></p> <p style="text-align: center;"><b>7th Portuguese Conference On Automatic Control</b> CONTROLO'06, pp. , Lisbon, Portugal, 11-13 September, 2006</p>
IROS06	<p style="text-align: center;">Application Of Optimization Techniques For An Optimal Fertilization By Centrifugal Spreading <i>T. Virin, J. Koko, E. Piron, P. Martinet, M. Berducat</i></p> <p style="text-align: center;"><b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b> IROS'06, pp. , Beijing, China, 9-14 October, 2006</p>
IROS06	<p style="text-align: center;">3D pose visual servoing relieves parallel robot control from joint sensing <i>T. Dallej, N. Andreff, Y. Mezouar, P. Martinet</i></p> <p style="text-align: center;"><b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b> IROS'06, pp. , Beijing, China, 9-14 October, 2006</p>



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Codes	References
IROS06	<p style="text-align: center;">Kinematic Calibration of a Gouf-stewart Platform using and omnidirectional camera  <i>T. Dallej, H. Hadj Abdelkader, N. Andreff, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'06, pp. , Beijing, China, 9-14 October, 2006</p>
IROS06	<p style="text-align: center;">Decoupled Homography based visual servoing with omnidirectional camera  <i>H. Hadj Abdelkader, Y. Mezouar, N. Andreff, P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>                      IROS'06, pp. , Beijing, China, 9-14 October, 2006</p>
IECON06	<p style="text-align: center;">Visual Servoing of Par4 using Leg Observation  <i>T. Dallej , N. Andreff, P. Martinet</i>  <b>32nd Annual Conference of the IEEE Industrial Electronics Society</b>                      IECON'06, pp. , Paris, France, 7-10 november, 2006</p>
IECON06	<p style="text-align: center;">Vision-based Computed Torque Control for parallel robots  <i>F. Paccot, N. Andreff, P. Martinet, W. Khalil</i>  <b>32nd Annual Conference of the IEEE Industrial Electronics Society</b>                      IECON'06, pp. , Paris, France, 7-10 november, 2006</p>
CDC06	<p style="text-align: center;">Path planning for image based control with omnidirectional cameras  <i>H. Hadj Abdelkader, Y. Mezouar, P. Martinet</i>  <b>45th IEEE Conference on Decision and Control</b>                      CDC'06, pp. , San Diego, California, USA, 13-15 December, 2006</p>
CDC06	<p style="text-align: center;">Mobile robots control in presence of sliding :                      Application to agricultural vehicle path tracking  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>45th IEEE Conference on Decision and Control</b>                      CDC'06, pp. , San Diego, California, USA, 13-15 December, 2006</p>
ROBIO06	<p style="text-align: center;">3D Grasp Synthesis Based on Object Exploration  <i>E. Chinellato, G. Recatala, A. del Pobil, Y. Mezouar, P. Martinet</i>  <b>IEEE International Conference on Robotics and Biomimetics</b>                      ROBIO'06, pp. , Kunming, China, December 17-20, 2006</p>
IFTOMM07	<p style="text-align: center;">Enhancing tracking performances of                      parallel kinematic machines  <i>F. Paccot, N. Andreff, P. Martinet</i>  <b>12th World Congress in Mechanism and Machine Science</b>                      IFTOMM'07, pp. , Besancon, France, June 17 -21, 2007</p>
IFTOMM07	<p style="text-align: center;">Towards a Generic Image-Based Visual Servoing                      of Parallel Robots Using Legs Observation                      * <i>T. Dallej, N. Andreff, P. Martinet</i>  <b>12th World Congress in Mechanism and Machine Science</b>                      IFTOMM'07, pp. , Besancon, France, June 17 -21, 2007</p>

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Codes	References
CMSM07	<p style="text-align: center;">Towards a generic kinematic model for vision-based control of parallel kinematic machines  <i>T. Dallej, N. Andreff, and P. Martinet,</i>  <b>Congrs Conception et Modlisation des Systmes Mcaniques</b>            CMSM'07, Monastir, Tunisia, March 9-21st, 2007</p>
ICRA07	<p style="text-align: center;">Decoupled visual servoing from a set of points imaged by an omnidirectional camera  <i>H. Hadj Abdelkader, Y. Mezouar, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>            ICRA'07, pp. 1697-1702, Roma, Italy, April 10-14th, 2007</p>
ICRA07	<p style="text-align: center;">Image-Based Visual Servoing of the I4R parallel robot without Proprioceptive Sensors  <i>T. Dallej, N. Andreff, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>            ICRA'07, pp. 1709-1714, Roma, Italy, April 10-14th, 2007</p>
ECC07	<p style="text-align: center;">Revisiting the major dynamic control strategies of parallel robots  <i>F. Paccot, N. Andreff, P. Martinet,</i>  <b>European Conference on Control,</b>            ECC07, Kos, Greece, July 2-5th, 2007</p>
ICAR07a	<p style="text-align: center;">Some issues on dynamic control of parallel kinematic machines  <i>F. Paccot, O. Ait-Aider, N. Andreff, P. Martinet,</i>  <b>13th International Conference on Advanced Robotics,</b>            ICAR07, Jeju, Korea, August 21-24, 2007</p>
ICAR07b	<p style="text-align: center;">Vision-based self-calibration and control of parallel kinematic mechanisms without proprioceptive sensing  <i>N. Andreff, P. Martinet,</i>  <b>13th International Conference on Advanced Robotics,</b>            ICAR07, Jeju, Korea, August 21-24, 2007</p>
ICAR07c	<p style="text-align: center;">External Hybrid Vision/Force Control  <i>Y. Mezouar, M. Prats, P. Martinet,</i>  <b>13th International Conference on Advanced Robotics,</b>            ICAR07, Jeju, Korea, August 21-24, 2007</p>
IROS07a	<p style="text-align: center;">Vision/Force Coupling in Task-Oriented Grasping and Manipulation  <i>M. Prats, P. Martinet, A. Del Pobil, S. Lee,</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b>            IROS'07, San Diego, California, USA, 29 October 2 November, 2007</p>
IROS07b	<p style="text-align: center;">Backstepping observer dedicated to tire cornering stiffness estimation: Application to an All Terrain Vehicle and a farm tractor  <i>N. Bouton, R. Lenain, B. Thuilot, P. Martinet,</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b>            IROS'07, San Diego, California, USA, 29 October 2 November, 2007</p>
IROS07c	<p style="text-align: center;">Omnidirectional Visual-Servo of a Gough-Stewart Platform  <i>O. Tahri, Y. Mezouar, N. Andreff, P. Martinet,</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b>            IROS'07, San Diego, California, USA, 29 October 2 November, 2007</p>

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Codes	References
IROS07d	<p style="text-align: center;">A Generic Fisheye camera model for robotic applications  <i>J. Courbon, Y. Mezouar, L. Eck, P. Martinet,</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b>  IROS'07, San Diego, California, USA, 29 October 2 November, 2007</p>
ICRA08	<p style="text-align: center;">A Vision-based Computed Torque Control for Parallel Kinematic Machines  <i>F. Paccot, P. Lemoine, N. Andreff, D. Chablat, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>  ICRA'08, Pasadena, California, May 19-23th, 2008</p>
CCDC08	<p style="text-align: center;">Lateral control of autonomous vehicles with sliding angle reconstruction  <i>H. Fang, R.X. Fan, B. Thuilot, P. Martinet,</i>  <b>Chinese Control and Decision Conference</b>  CCDC08, Yantai, China, July 24th, 2008</p>
IFAC08	<p style="text-align: center;">Motion Planning for Non-Holonomic Mobile Manipulator Based Visual Servo  under Large Platform Movement Errors at Low Velocity  <i>Le Minh Phuoc, Martinet P., Kim Hun Mo, Lee S.,</i>  <b>17th IFAC World Congress,</b>  IFAC08, July 6-11th, Seoul, Korea, 2008</p>
MFI08	<p style="text-align: center;">Compliant Physical Intercation on External Vision/Force Control  and Tactile/Force Combination  <i>M. Prats, P. Martinet, S. Lee, P. J. Sanz,</i>  <b>IEEE International Conference on Multisensor Fusion and Integration,</b>  MFI08, Seoul, Korea, August 20-22th, 2008</p>
CIFA08	<p style="text-align: center;">Commande d'un vhicule 4 roues directrices en milieu naturel:  application au suivi de trajectoires pour les engins agricoles  <i>C. Cariou, R. Lenain, B. Thuilot, P. Martinet,</i>  <b>Confrence Internationale Francophone d'Automatique,</b>  CIFA08, Bucarest, Roumania, September 3-5th, 2008</p>
IROS08a	<p style="text-align: center;">A rollover indicator based on a tire stiffness backstepping  observer: application to an all-terrain vehicle  <i>N. Bouton, R. Lenain, B. Thuilot, P. Martinet,</i>  <b>IEEE International Conference on Intelligent Robots and Systems,</b>  IROS08, Nice, France, September 22-26th, 2008</p>
IROS08a	<p style="text-align: center;">Adaptive control of four-wheel-steering off-road mobile robots:  application to path tracking and heading control in presence of sliding  <i>C. Cariou, R. Lenain, B. Thuilot, P. Martinet,</i>  <b>IEEE International Conference on Intelligent Robots and Systems,</b>  IROS08, Nice, France, September 22-26th, 2008</p>
ICARCV08a	<p style="text-align: center;">A Global Decentralized Control Strategy for Urban Vehicle Platooning  using Monocular Vision and a Laser Rangefinder  <i>P. Avanzini, E. Royer, B. Thuilot, P. Martinet,</i>  <b>invited session "Robot navigation and mobility,</b>  <b>10th International Conference on Control, Automation, Robotics and Vision</b>  ICARCV-08, Hanoi, Vietnam, 17-20th December 2008</p>

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Codes	References
ICARCV08b	<p style="text-align: center;">Efficient Visual Memory Based Navigation of Indoor Robot with a Wide-field of View Camera <i>J. Courbon, Y. Mezouar, L. Eck, P. Martinet,</i> <b>invited session "Robot navigation and mobility,</b> <b>10th International Conference on Control, Automation, Robotics and Vision</b> ICARCV-08, Hanoi, Vietnam, 17-20th December 2008</p>
ICRA09a	<p style="text-align: center;">Decoupled visual servoing based on the spherical projection of points <i>H. Hadj Abdelkader, Y. Mezouar, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA'09, Kobe, Japan, May 12-17th, 2009</p>
ICRA09b	<p style="text-align: center;">An active anti-rollover device based on Predictive Functional Control: Application to an All-Terrain Vehicle <i>N. Bouton, R. Lenain, B. Thuilot, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA'09, Kobe, Japan, May 12-17th, 2009</p>
IROS09a	<p style="text-align: center;">On-line reference trajectory generation for manually convoying a platoon of automatic urban vehicles <i>P. Avanzini, B. Thuilot, T. DALLEJ, P. Martinet, J.P. Derutin,</i> <b>2009 IEEE/RSJ International Conference on Intelligent Robots and Systems,</b> IROS09, St. Louis, MO, USA, October 11-15th, 2009</p>
ECMR09	<p style="text-align: center;">Multi Lyapunov Function Theorem Applied to a Mobile Robot Tracking a Trajectory in Presence of Obstacles <i>A. Benzerrouk, L. Adouane, P. Martinet, N. Andreff,</i> <b>2009 European Conference on Mobile Robots,</b> ECMR09, Mlini/Dubrovnik, Croatia, September 23-25th, 2009</p>
IROS09b	<p style="text-align: center;">Visual navigation of a quadrotor aerial vehicle <i>J. Courbon, Y. Mezouar, N. Guenard, P. Martinet,</i> <b>2009 IEEE/RSJ International Conference on Intelligent Robots and Systems,</b> IROS09, St. Louis, MO, USA, October 11-15th, 2009</p>
IROS09c	<p style="text-align: center;">Fast sideslip angle backstepping observer: Accurate control of high-speed mobile robots in off-road conditions <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet,</i> <b>2009 IEEE/RSJ International Conference on Intelligent Robots and Systems,</b> IROS09, St. Louis, MO, USA, October 11-15th, 2009</p>
IROS09d	<p style="text-align: center;">Motion planner and lateral-longitudinal controllers for autonomous maneuvers of a farm vehicle in headland <i>C. Cariou, R. Lenain, B. Thuilot, P. Martinet,</i> <b>2009 IEEE/RSJ International Conference on Intelligent Robots and Systems,</b> IROS09, St. Louis, MO, USA, October 11-15th, 2009</p>
IROS09e	<p style="text-align: center;">3D Pose and Velocity Visual Tracking Based on Sequential Region of Interest Acquisition <i>R. Dahmouche, N. Andreff, Y. Mezouar, P. Martinet,</i> <b>2009 IEEE/RSJ International Conference on Intelligent Robots and Systems,</b> IROS09, St. Louis, MO, USA, October 11-15th, 2009</p>

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Codes	References
ITST09	Obstacle Avoidance and Trajectory Replanification for a Group of Communicating Vehicles <i>P. Avanzini, B. Thuilot, P. Martinet,</i> <b>9th International Conference on ITS Telecommunications,</b> ITST09, Lille, France, October 20-22th, 2009
ICRA10	Efficient High-speed Vision-based Computed Torque Control of the Orthoglide Parallel Robot <i>R. Dahmouche, N. Andreff, Y. Mezouar, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA10, Anchorage, Alaska, May 3-8th, 2010
ICRA10	Vector-Based Dynamic Modeling and Control of Quattro Parallel Robot using Leg Orientations <i>E. Ozgur, N. Andreff, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA10, Anchorage, Alaska, May 3-8th, 2010
ICRA10	Adaptive formation control of a fleet of mobile robots: Application to autonomous field operations <i>R. Lenain, J. Preynat, B. Thuilot, P. Avanzini, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA10, Anchorage, Alaska, May 3-8th, 2010
ICRA10	Autonomous maneuver of a farm vehicle with a trailed implement: motion planner and lateral-longitudinal controllers <i>C. Cariou, R. Lenain, B. Thuilot, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA10, Anchorage, Alaska, May 3-8th, 2010
ICRA10	A new device dedicated to autonomous mobile robot dynamic stability: Application to an off-road mobile robot <i>N. Bouton, R. Lenain, B. Thuilot, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA10, Anchorage, Alaska, May 3-8th, 2010
CIFA10	Stabilité globale pour la navigation réactive d'un robot mobile en présence d'obstacles <i>A. Benzerrouk L. Adouane, Z. Al-Barakeh, P. Martinet,</i> <b>Sixième Conférence Internationale Francophone d'Automatique,</b> CIFA10, Nancy, France, 2-4 juin 2010
IMDS10	On the adequation of dynamic modelling and control of parallel kinematic manipulators <i>E. Ozgur, N. Andreff, P. Martinet,</i> <b>1st Joint International Conference on Multibody System Dynamics,</b> IMDS10, Lappeenranta, Finland, May 25-27, 2010
IROS10	Accurate platoon control of urban vehicles, based solely on monocular vision <i>P. Avanzini, B. Thuilot, P. Martinet,</i> <b>IEEE/RSJ International Conference on Intelligent RObots and Systems,</b> IROS10, Taipei, Taiwan, October 18-22th, 2010

### International Conferences (Continued)

Codes	References
IROS10	<p style="text-align: center;">Path following of a vehicle-trailer system in presence of sliding: Application to automatic guidance of a towed agricultural implement <i>C. Cariou, R. Lenain, B. Thuilot, P. Martinet,</i> <b>IEEE/RSJ International Conference on Intelligent RObots and Systems,</b> IROS10, Taipei, Taiwan, October 18-22th, 2010</p>
IROS10	<p style="text-align: center;">Navigation of Multi-Robot Formation in Unstructured Environment Using Dynamical Virtual Structures <i>A. Benzerrouk, L. Adouane, L. Lequievre, P. Martinet,</i> <b>IEEE/RSJ International Conference on Intelligent RObots and Systems,</b> IROS10, Taipei, Taiwan, October 18-22th, 2010</p>
ICARCV10	<p style="text-align: center;">Urban Vehicle Platoon using Monocular Vision: Scale Factor Estimation <i>P. Avanzini, B. Thuilot, P. Martinet,</i> <b>11th International Conference on Control, Automation, Robotics and Vision,</b> ICARCV10, Singapore, December 7-10th, 2010</p>
IROS11	<p style="text-align: center;">Towards Vision-Based Control of Cable-Driven Parallel Robots <i>T. Dallej, M. Gouttefarde, N. Andreff, M. Michelin, P. Martinet,</i> <b>2011 IEEE/RSJ International Conference on Intelligent RObots and Systems,</b> IROS11, San Francisco, USA, september 26th - 29th, 2011</p>
IROS11	<p style="text-align: center;">Avoiding steering actuator saturation in off-road mobile robot path tracking via predictive velocity control <i>O. Hach, R. Lenain, B. Thuilot, P. Martinet,</i> <b>2011 IEEE/RSJ International Conference on Intelligent RObots and Systems,</b> IROS11, San Francisco, USA, september 26th - 29th, 2011</p>
ECMR11	<p style="text-align: center;">Efficient Topological Mapping with Image Sequence Partitioning <i>H. Korrapati, Y. Mezouar, P. Martinet,</i> <b>2011 European Conference on Mobile Robots,</b> ECMR11, rebro, Sweden, September 7-9th, 2011</p>
ICINCO11	<p style="text-align: center;">Architecture Controlling Multi-Robot System using Multi-Agent based Coordination Approach <i>M. Mouad, L. Adouane, P. Schmitt, D. Khadraoui, P. Martinet,</i> <b>2011 ICINCO Special Session on Mobile Robots and Autonomous Systems,</b> ICINCO-MORAS11, Holland, july 28-31th, 2011</p>
IFAC11	<p style="text-align: center;">Mobile Robot Navigation in Cluttered Environment using Reactive Elliptic Trajectories <i>L. Adouane, A. Benzerrouk, P. Martinet,</i> <b>18th IFAC World Congress,</b> IFAC11, Milano, Italy, August 28th - September 2th, 2011</p>
ICRA11	<p style="text-align: center;">High-speed mobile robot control in off-road conditions: a multi-model based adaptive approach <i>R. Lenain, B. Thuilot, O. Hach, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA11, Shanghai, China, May 9-13th, 2011</p>
ICRA11	<p style="text-align: center;">Dynamic Control of the Quattro Robot by the Leg Edgels <i>E. Ozgur, N. Andreff, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA11, Shanghai, China, May 9-13th, 2011</p>

## International Conferences (Continued)

Codes	References
PAAMS11	<p>Map Partitioning to Approximate an Exploration Strategy in Mobile Robotics  <i>G. Lozenguez, A. Benzerrouk, A. Beynier, P. Martinet, A. Mouaddib</i>  <b>9th International Conference on Practical Applications of Agents and Multi-Agent Systems,</b>            PAAMS11, Salamanca, Spain, April 6-8th, 2011</p>
ICARCV12	<p>Improved Model Based Visual Servoing for Manipulation Tasks  <i>A.B. Moughlbay, E. Cervera, P. Martinet,</i>  <b>12th International Conference on Control, Automation, Robotics and Vision</b>            ICARCV 2012, Guangzhou, China, December 5-7th, 2012</p>
IROS12	<p>Vision-based modeling and control of Large-Dimension Cable-Driven Parallel Robots  <i>T. Dallej, M. Gouttefarde, N. Andreff, R. Dahmouche, P. Martinet,</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems</b>            IROS 2012, Vilamoura, Portugal, October 7-12, 2012</p>
SYROCO12	<p>Mobile Robot Navigation and Obstacles Avoidance based on Planning and Re-Planning Algorithm  <i>M. Mouad, L. Adouane, D. Khadraoui, P. Martinet,</i>  <b>10th IFAC Symposium on Robot Control</b>            SYROCO 2012, Dubrovnik, Croatia, September 5-7, 2012</p>
SYROCO12	<p>Altruistic distributed Target Allocation for Stable Navigation in Formation of Multi-robot System  <i>A. Benzerrouk, L. Adouane, P. Martinet,</i>  <b>10th IFAC Symposium on Robot Control</b>            SYROCO 2012, Dubrovnik, Croatia, September 5-7, 2012</p>
ROMANSY12	<p>Off-road mobile robot control: an adaptive approach for accuracy and integrity  <i>R. Lenain, B. Thuilot, N. Bouton, P. Martinet,</i>  <b>19th CISM-IFTToMM Symposium on Robot Design, Dynamics, and Control</b>            ROMANSY 2012, Paris, France, June 12-15, 2012</p>
IAS12	<p>Real-time Model Based Visual Servoing Tasks on a Humanoid Robot  <i>A. Abou Moughlbay, E. Cervera, P. Martinet,</i>  <b>12th International Conference on Intelligent Autonomous System</b>            IAS 2012, Jeju Island, South Korea, June 26-29th, 2012</p>
IAS12	<p>Interleaving Planning and Control of Mobiles Robots in Urban Environments Using Road-Map  <i>G. Lozenguez, L. Adouane, A. Beynier, A. Mouaddib, P. Martinet,</i>  <b>Intelligent and Autonomous System,</b>            IAS 2012, Jeju Island, South Korea, June 26-29th, 2012</p>
IV12	<p>Manual convoying of automated urban vehicles relying on monocular vision  <i>P. Avanzini, B. Thuilot, P. Martinet,</i>  <b>IEEE Intelligent Vehicles Symposium,</b>            IV 2012, Alcal de Henares, Spain, June 3-7th, 2012</p>
ICRA12	<p>Image Sequence Partitioning for Outdoor Mapping  <i>H. Korrapati, J. Courbon, Y. Mezouar, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>            ICRA12, Saint-Paul, Minnesota, May 14-18th, 2012</p>
ICINCO13	<p>Minimizing the inter-vehicle distances of the time headway policy for platoon control on highways  <i>A. Ali, G. Garcia, P. Martinet,</i>  <b>10th International Conference on Informatics in Control, Automation and Robotics,</b>            ICINCO13, Reykjavk, Iceland, 29-31 July, 2013</p>

## International Conferences (Continued)

Codes	References
ICINCO13	<p style="text-align: center;">A Computational Cognition and Visual Servoing Based Methodology to Design Automatic Manipulative Tasks <i>A. Chame, C. Chevallereau, P. Martinet,</i> <b>10th International Conference on Informatics in Control, Automation and Robotics,</b> ICINCO13, Reykjavk, Iceland, 29-31 July, 2013</p>
IDETC13	<p style="text-align: center;">Optimal motion generation for exiting a parallel manipulator from a type 2 singularity <i>G. Pagis, S. Briot, N. Bouton, P. Martinet,</i> <b>ASME 2013 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference,</b> IDETC/CIE 2013, Portland, Oregon, USA, August 4-7, 2013</p>
IV13	<p style="text-align: center;">Obstacle Avoidance Controller Generating Attainable Set-points for the Navigation of Multi-Robot System <i>A. Benzerrouk, L. Adouane, P. Martinet,</i> <b>2013 IEEE Intelligent Vehicles Symposium,</b> IV 2013, Gold Coast, Australia, June 23-26, 2013</p>
ICRA13	<p style="text-align: center;">Minimal Representation for the Control of Gough-Stewart Platforms via Leg Observation Considering a Hidden Robot Model <i>S. Briot, P. Martinet,</i> <b>IEEE International Conference on Robotics and Automation,</b> ICRA13, Karlsruhe, Germany, May 06-10th, 2013</p>
ICAR13	<p style="text-align: center;">Modeling and Control of a Meat-Cutting Robotic Cell <i>Long P, W. Khalil, and P. Martinet,</i> <b>16th International Conference on Advanced Robotics,</b> ICAR 2013, Universidad de la Republica in Montevideo, Uruguay, November 25-29th, 2013</p>
IAT13	<p style="text-align: center;">Simultaneous Auctions for "Rendez-Vous" Coordination Phases in Multi-Robot Multi-Task Mission <i>G. Lozenguez, A. Beynier, L. Adouane, A.I. Mouaddib, and P. Martinet,</i> <b>2013 IEEE/WIC/ACM International Conference on Intelligent Agent Technology,</b> IAT13, Atlanta, GA USA, 17-20th November, 2013</p>
IROS13	<p style="text-align: center;">High Speed Parallel Kinematic Manipulator State Estimation from Legs Observation <i>E. Ozgur, N. Andreff, R. Dahmouche, P. Martinet,</i> <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b> IROS13, Tokyo, Japan, 4-6th November, 2013</p>
IROS13	<p style="text-align: center;">Minimal Representation for the Control of the Adept Quattro with Rigid Platform via Leg Observation Considering a Hidden Robot Model <i>V. Rosenzweig, S. Briot, P. Martinet,</i> <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b> IROS13, Tokyo, Japan, 4-6th November, 2013</p>
ITSC13	<p style="text-align: center;">Decoupling Lateral And Longitudinal Control Of Urban Platoons <i>A. Ali, G. Garcia, P. Martinet,</i> <b>16th International IEEE Conference on Intelligent Transportation Systems,</b> ITSC13, The Hague, The Netherlands, 6-9 October, 2013</p>
ICTHP13	<p style="text-align: center;">Humanoid Robot Localization and Navigation in Domestic Environment using RGBD Sensor <i>A. Abou Moughlbay, E. Cervera, P. Martinet,</i> <b>1st International Conference on Technology for Helping People with Special Needs,</b> ICTHP, February 18-20, 2013, Riyadh, Kingdom of Saudi Arabia</p>



## International Conferences (Continued)

Codes	References
ICARCV14a	<p style="text-align: center;">Robotic Cutting of Soft Materials using Force Control &amp; Image Moments  <i>P. Long, W. Khalil, P. Martinet,</i>  <b>13th International Conference on Control, Automation, Robotics and Vision,</b>                      ICARCV 2014, Singapore, Singapore, 10-12th December, pp. 474-479, 2014</p>
ICARCV14b	<p style="text-align: center;">Safe Platooning in the Event of Communication Loss using Fatbed Tow Truck Model  <i>A. Ali, G. Garcia, P. Martinet,</i>  <b>13th International Conference on Control, Automation, Robotics and Vision,</b>                      ICARCV 2014, Singapore, Singapore, 10-12th December, pp. 1644-1649, 2014</p>
ICRA14	<p style="text-align: center;">Comparative Analysis of two Types of Leg-observation-based Visual Servoing                      Approaches for the Control of the Five-bar Mechanism  <i>A. Vignolo, S. Briot, C. Chen, P. Martinet,</i>  <b>Australasian Conference on Robotics and Automation,</b>                      The University of Melbourne, 2-4 December 2014</p>
IROS14	<p style="text-align: center;">Force/vision control for robotic cutting of soft materials  <i>P. Long, W. Khalil, P. Martinet,</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b>                      IROS14, Chicago, USA, 14-18th September, 2014</p>
IAS14	<p style="text-align: center;">Performing Assembly Task Under Constraints Using 3D Sensor-Based Control  <i>S. Vandernotte, A. Chriette, A. Suarez Roos, P. Martinet,</i>  <b>13th International Conference on Intelligent Autonomous Systems,</b>                      Padova, Italy, July 15-18, 2014</p>
AIM14	<p style="text-align: center;">A vision-based generic dynamic model of PKMs and its experimental                      validation on the Quattro parallel robot  <i>E. Ozgur, R. Dahmouche, N. Andreff, P. Martinet,</i>  <b>IEEE/ASME International Conference on Advanced Intelligent Mechatronics,</b>                      Besanon, France, July 8-11th, 2014</p>
ARK14	<p style="text-align: center;">The Hidden Robot Concept: a Tool for Control Analysis and Robot Control-based Design  <i>S. Briot, V. Rosenzweig, P. Martinet,</i>  <b>Advances in Robot Kinematics,</b>                      Ljubljana, Slovenia, Jun 29 - July 3, 2014</p>
ICRA14a	<p style="text-align: center;">Design of a Controller for Enlarging Parallel Robots Workspace                      through Type 2 Singularity Crossing  <i>G. Pagis, N. Bouton, S. Briot, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>                      ICRA14, Hong-Kong, China, May 31 - June 7, 2014</p>
ICRA14a	<p style="text-align: center;">A Method for Simplifying the Analysis of Leg-Based Visual Servoing of Parallel Robots  <i>V. Rosenzweig, S. Briot, P. Martinet, E. Ozgur, N. Bouton,</i>  <b>IEEE International Conference on Robotics and Automation,</b>                      ICRA14, Hong-Kong, China, May 31 - June 7, 2014</p>
NGCR14	<p style="text-align: center;">Vision-based control of multi arms system  <i>P. Martinet, A. A. Moughlbay, P. Long, W. Khalil,</i>  <b>Next generation of collaborative robots, French-Japanese Conference,</b>                      Tokyo, Japan, February 24, 2014</p>
ITSC15	<p style="text-align: center;">An optimization technique for positioning multiple maps for self-driving car's autonomous navigation  <i>S. Dominguez Quijada, B. Khomutenko, G. Garcia, P. Martinet,</i>  <b>Intelligent Transportation System Conference Symposium,</b>                      ITSC 2015, Gran Canaria, Canary Islands, Spain, September 15-18, 2015</p>

## International Conferences (Continued)

Codes	References
ICAR15a	<p style="text-align: center;">Dynamic Modeling of Cooperative Robots holding Flexible Objects  <i>P. Long, P. Martinet, W. Khalil,</i>  <b>17th International Conference on Advanced Robotics,</b>                      ICAR15, Istanbul, Turkey, July 27th - 31th, 2015</p>
ICAR15b	<p style="text-align: center;">End-effector pose estimation of the Monash Epicyclic-Parallel Manipulator                      through the visual observation of its legs  <i>A. Vignolo, S. Briot, P. Martinet, C. Chen,</i>  <b>17th International Conference on Advanced Robotics,</b>                      ICAR15, Istanbul, Turkey, July 27th - 31th, 2015</p>
IV15	<p style="text-align: center;">Urban Platooning Using a Flatbed Tow Truck Model  <i>A. Ali, G. Garcia, P. Martinet,</i>  <b>Intelligent Vehicle Symposium,</b>                      IV 2015, Seoul, South Korea, June 28th - July 1st, 2015</p>
ICRA15	<p style="text-align: center;">Enhanced Flatbed Tow Truck Model for Stable and Safe Platooning in                      the Presences of Lags, Communication and Sensing Delays  <i>A. Ali, G. Garcia, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>                      ICRA15, Seattle, USA, May 26th - 30th, 2015</p>
ICRA15	<p style="text-align: center;">ROS-based Online Robot Programming for Remote Education and Training  <i>G.A. Casa, E. Cervera, A.A. Moughlbay, J. Alemany, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>                      ICRA15, Seattle, USA, May 26th - 30th, 2015</p>
ICRA16	<p style="text-align: center;">An Enhanced Unified Camera Model  <i>B. Khomutenko, G. Garcia, P. Martinet,</i>  <b>IEEE International Conference on Robotics and Automation,</b>                      ICRA16, Stockholm, Sweden, May 16th - 21th, 2016</p>
EUCOMES16	<p style="text-align: center;">Control-based Design of a Five-bar Mechanism  <i>L. Kaci, S. Briot, C. Boudeaud, P. Martinet,</i>  <b>6th European Conference on Mechanism Science,</b>                      EUCOMES16, Nantes, France, September 20th - 23th, 2016</p>
EUCOMES16	<p style="text-align: center;">A Controller for Avoiding Dynamic Model Degeneracy of                      Parallel Robots during Type 2 Singularity Crossing  <i>D. Six, S. Briot, A. Chriette, P. Martinet,</i>  <b>6th European Conference on Mechanism Science,</b>                      EUCOMES16, Nantes, France, September 20th - 23th, 2016</p>
ICARCV16	<p style="text-align: center;">Dynamic Sensor-Based Control  <i>S. Vandernotte, A. Chriette, A. Suarez Roos, P. Martinet,</i>  <b>14th International Conference on Control, Automation, Robotics and Vision,</b>                      ICARCV'16, Phuket, Thailand November 13-15th, 2016</p>
ICARCV16	<p style="text-align: center;">Direct Fisheye Stereo Correspondence Using Enhanced Unified                      Camera Model and Semi-Global Matching Algorithm  <i>B. Khomutenko, G. Garcia, P. Martinet,</i>  <b>14th International Conference on Control, Automation, Robotics and Vision,</b>                      ICARCV'16, Phuket, Thailand November 13-15th, 2016</p>

### International Conferences (Continued)

Codes	References
ITSC16	Comparison of lateral controllers for autonomous vehicle : experimental results <i>S. Dominguez Quijada, A. Ali, G. Garcia, P. Martinet,</i> <b>19th International IEEE Conference on Intelligent Transportation Systems,</b> ITSC'16, Rio de Janeiro, Brazil November 1-4th, 2016

## International Workshops

Codes	References
CAMP91	<p style="text-align: center;">Parallel Architecture for Visual Servoing Applications  <i>P. Martinet, P. Rives, P. Fickinger, J.J. Borrelly</i>  <b>Workshop on Computer Architecture for Machine Perception</b>                      CAMP'91, pp 407-418, Paris, France, 16-18 December 1991</p>
CAMP93	<p style="text-align: center;">A Versatile Parallel Architecture for Visual Servoing Applications  <i>P. Rives, J.J. Borrelly, J. Gallice, P. Martinet</i>  <b>Workshop on Computer Architecture for Machine Perception</b>                      CAMP'93, pp 400-409, News Orleans, Louisiana, USA, 15-17 December 1993</p>
IARP95	<p style="text-align: center;">Vision Based Control Law for Agricultural Mobile Machine  <i>D. Khadraoui, C. Debain, P. Martinet, M. Berducat, J. Gallice</i>  <b>4<sup>th</sup> Workshop on Robotics in Agriculture and the Food Industry</b>                      IARP95, pp 109-116, Toulouse, France, 30-31 October 1995</p>
IARP95	<p style="text-align: center;">A Visual Servoing Approach to Control Agricultural Mobile Machines  <i>C. Debain, D. Khadraoui, M. Berducat, P. Martinet, P. Bonton</i>  <b>4<sup>th</sup> Workshop on Robotics in Agriculture and the Food Industry</b>                      IARP95, pp 117-124, Toulouse, France, 30-31 October 1995</p>
IROS97	<p style="text-align: center;">Robot Control Using 3D Monocular Pose Estimation  <i>P. Martinet, N. Daucher, J. Gallice, M. Dhome</i>  <b>Workshop on New Trends in Image Based Robot Servoing</b>                      IEEE/RSJ International Conference on Intelligent Robots and Systems                      IROS'97, pp 1-12, Grenoble, France, 7-11 September 1997</p>
MVA98	<p style="text-align: center;">Real Time Visual Servoing around a complex object  <i>F. Berry, P. Martinet, J. Gallice</i>  <b>IAPR Workshop on Machine vision Application</b>                      MVA'98, pp 254-257, Chiba, Japan, 17-19 November 1998</p>
CAMP03	<p style="text-align: center;">The task "template tracking" in a sensor dedicated to active vision  <i>P. Chalimbaud, F. Berry, P. Martinet</i>  <b>Workshop on Computer Architecture for Machine Perception</b>                      CAMP'03, pp, News Orleans, Louisiana, USA, 2003</p>
SAFEMOVE04	<p style="text-align: center;">Accurate automatic guidance of urban electric vehicles  <i>P. Martinet, J. Bom, B. Thuilot, F. Marmoiton</i>  <b>1<sup>st</sup> French-Korean Workshop on Workshop on Dependable Robotic Navigation</b>                      SAFEMOVE'04, Suwon, Korea, October 4-5th, 2004</p>
ROMOCO05	<p style="text-align: center;">Visual Servoing of a Gough-Stewart Parallel Robot without Proprioceptive Sensors  <i>N. Andreff, P. Martinet</i>  <b>Fifth International Workshop on Robot Motion and Control</b>                      ROMOCO'05, pp 225-230, Dymaczewo-Poznan, Poland, June 23-25th, 2005</p>
SWAR05	<p style="text-align: center;">Adaptive and Predictive Control for Off-road Mobile Robots Path Tracking  <i>R. Lenain, B. Thuilot, M. Berducat, P. Martinet</i>  <b>3rd Swedish Workshop on Autonomous Robotics</b>                      SWAR'05, pp., Stockholm, Sweden, September 1-2th, 2005</p>
SAFEMOVE05	<p style="text-align: center;">Nonlinear Control strategies for Urban Vehicles Platooning  <i>P. Martinet, J. Bom, B. Thuilot, F. Marmoiton</i>  <b>2<sup>nd</sup> French-Korean Workshop on Dependable Robotic Navigation</b>                      SAFEMOVE'05, Suwon, Korea, October 27-28th, 2005</p>

### International Workshops (Continued)

Codes	References
IARP05	<p style="text-align: center;">From autonomous navigation to platooning in urban context  <i>P. Martinet, B. Thuilot</i>  <b>2<sup>nd</sup> IARP International Workshop on Adaptive and Intelligent Robots: Present and Future</b>                      IARP'05, Moscou, Russia, November 24-26th, 2005</p>
IROS06	<p style="text-align: center;">Autonomous Navigation and Platooning using a Sensory Memory  <i>P. Martinet, B. Thuilot, J. Bom</i>  <b>Workshop Safe Navigation in Open and Dynamic Environments: Autonomous Systems versus Driving Assistance Systems at International IEEE Conference on Intelligent Robots and Systems</b>                      IROS'06, Beijing, China, October 2006</p>
ICRA07	<p style="text-align: center;">Navigation of a non-holonomic mobile robot with a memory of omnidirectional images  <i>J. Courbon, G. Blanc, Y. Mezouar, P. Martinet,</i>  <b>Workshop on Planning, Perception and Navigation for Intelligent Vehicles at IEEE International Conference on Robotics and Automation,</b>                      ICRA'07, Roma, Italy, pp. 51-56, April 10-14th, 2007</p>
IWVVS07	<p style="text-align: center;">Omnidirectional Visual servoing  <i>P. Martinet, Y. Mezouar, H. Hadj Abdelkader,</i>  <b>International Workshop on Vision and Visual Servoing, at IEEE International Conference on Robotics and Automation,</b>                      IWVVS07, Sungkyunkwan University, Suwon, Korea, May 14, 2007</p>
ICRA08a	<p style="text-align: center;">A Sensor-Based Approach for Dependable Physical Interaction  <i>A. P. del Pobil, M. Prats, P. Martinet, S. Lee, R. Dillmann,</i>  <b>6th Workshop on "Technical Challenges for Dependable Robots in Human Environments" at IEEE International Conference on Robotics and Automation,</b>                      ICRA'08, Pasadena, California, USA, May 17-18, 2008</p>
IROS08a	<p style="text-align: center;">Advanced path tracking control for off road mobile robot  <i>R. Lenain, C. Cariou, B. Thuilot, P. Martinet,</i>  <b>IROS08 Workshop on Modeling, Estimation, Path Planning and Control of All Terrain Mobile Robots,</b>                      IROS'08, September 22th 2008, Nice, France</p>
ORV08	<p style="text-align: center;">Visual navigation of indoor/outdoor non-holonomic robots with wide field of view cameras,  <i>J. Courbon, Y. Mezouar, L. Eck, P. Martinet,</i>  <b>Workshop on Omnidirectional vision robotics,</b>                      OmniRoboVis2008, Venice, Italy, November 4th, 2008</p>
ICRA09a	<p style="text-align: center;">Automatic reverse turn of agricultural vehicles:                      a predictive approach,  <i>C. Cariou, R. Lenain, B. Thuilot, P. Martinet,</i>  <b>IEEE RAS Workshop on Agricultural Robotics,</b>                      ICRA'09, Kobe, Japan, May 13th, 2009</p>
ICRA09b	<p style="text-align: center;">A generic framework for topological navigation of urban vehicle,  <i>J. Courbon, Y. Mezouar, L. Eck, P. Martinet,</i>  <b>ICRA09 Workshop on Safe navigation in open and dynamic environments Application to autonomous vehicles,</b>                      ICRA'09, Kobe, Japan, May 12th, 2009</p>

### International Workshops (Continued)

Codes	References
CITYHOME09a	Last results in platooning <i>P. Martinet, B. Thuilot, P. Avanzini,</i> <b>CITYHOME International Workshop</b> CITYHOME09, Clermont-Ferrand, France, October 28-29th, 2009
CITYHOME09b	Multi Model-based adaptive path tracking control for off-road and high speed path tracking <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet,</i> <b>CITYHOME International Workshop</b> CITYHOME09, Clermont-Ferrand, France, October 28-29th, 2009
RISE10	Towards an Urban Cooperative and Autonomous Navigation System, <i>P. Martinet, B. Thuilot, L. Adouane, Y. Mezouar,</i> <b>IARP workshop on Risky Interventions and                      Environmental Surveillance-Maintenance,</b> RISE 2010, Invited talk, Sheffield, UK, January 20-21th, 2010
ICRA10	Lyapunov Global Stability for a Reactive Mobile Robot Navigation in Presence of Obstacles, <i>A. Benzerrouk, L. Adouane, P. Martinet,</i> <b>International Workshop on Robotics and Intelligent Transportation System,</b> RITS10, Anchorage, Alaska, May 7th, 2010
ICRA10	A global decentralized control strategy for urban vehicle, platooning relying solely on monocular vision, <i>P. Avanzini, B. Thuilot, E. Royer, P. Martinet,</i> <b>International Workshop on Robotics and Intelligent Transportation System,</b> RITS10, Anchorage, Alaska, May 7th, 2010
CRW10	Multi-agents based system to coordinate mobile teamworking robots, <i>M. Mouad, L. Adouane,, P. Schmitt, D. Khadraoui, B. Gateau, P. Martinet,</i> <b>4th Companion Robotics Workshop,</b> CRW10, Brussels, September 30th, 2010
ROBOTICS10	Control of robot under sliding conditions and high speed, <i>P. Martinet, R. Lenain, B. Thuilot, M. Berducat,</i> <b>International workshop Mobile Robotics for Environment/Agriculture,</b> ROBOTICS10, Clermont-Ferrand, France, September 3-4th, 2010
ROBOTICS10	Multi-robots formation in outdoors environment, <i>R. Lenain, B. Thuilot, M. Berducat, P. Martinet,</i> <b>International workshop Mobile Robotics for Environment/Agriculture,</b> ROBOTICS10, Clermont-Ferrand, France, September 3-4th, 2010
CPTSR10	Intelligent Transportation System, <i>P. Martinet,</i> <b>1st Korea-France Joint Research Center Workshop on                      Cognitive Personal Transport Service Robot,</b> CPTSR10, Suwon, South Korea, October 4th, 2010
PNAVHE11	Mobile robot control : Generic algorithm for high accurate trajectory control in different conditions, <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet,</i> <b>invited talk in IROS11 Workshop on Perception and Navigation                      for Autonomous Vehicles in Human Environment,</b> IROS-PNAVHE11, San Francisco, USA, september 30th, 2011

## International Workshops (Continued)

Codes	References
PPNIV12	<p style="text-align: center;">Dynamic Obstacle Avoidance Strategies using Limit Cycle for the Navigation of Multi-Robot System,  <i>A. Benzerrouk, L. Adouane, P. Martinet,</i>  <b>4th Workshop on Planning, Perception and Navigation for Intelligent Vehicles</b>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b>                      IROS-PPNIV'12, Vilamoura, Portugal, October 7th, 2012,</p>
ASRHE12	<p style="text-align: center;">Localization and Navigation of an Assistive Humanoid Robot in a Smart Environment  <i>E. Cervera, A.B. Moughlbay, P. Martinet,</i>  <b>IROS Workshop on Assistance and Service robotics in a human environment</b>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems,</b>                      IROS-ASRHE'12, Vilamoura, Portugal, October 12th, 2012,</p>
ERF13	<p style="text-align: center;">Navigation and localization in large working volumes  <i>P. Martinet,</i>  <b>EURobotics Workshop on Large Working Volumes,</b>  <b>European Robotics Forum,</b>                      ERF13, Lyon, France, March 21th, 2013</p>
WCUSPE13	<p style="text-align: center;">Control of Redundancy in complex systems : from theoretical concepts to applications,  <i>P. Martinet, A. A. Moughlbay, P. Long,</i>  <b>in International Workshop on Wireless Communications and,</b>  <b>User centered Services in Pervasive Environments,</b>                      Hanoi, Vietnam, 19-20 September, 2013</p>
PPNIV13	<p style="text-align: center;">Safe highways platooning with minimized inter-vehicle distances of the time headway policy,  <i>A. Ali, G. Garcia, P. Martinet,</i>  <b>5th Workshop on Planning, Perception and Navigation for Intelligent Vehicles,</b>                      IROS-PPNIV13, Tokyo, Japan, 3th November, 2013</p>
PAMM13	<p style="text-align: center;">Robotic Meat Cutting,  <i>Long P., A.A. Moughlbay, W. Khalil, and P. Martinet,</i>  <b>ICT-PAMM Workshop,</b>                      Kumamoto, Japan, November 9-10th, 2013</p>
PAMM13	<p style="text-align: center;">Safe highways platooning with minimized inter-vehicle distances of the time headway policy,  <i>Ali A., G. Garcia, and P. Martinet,</i>  <b>ICT-PAMM Workshop,</b>                      Kumamoto, Japan, November 9-10th, 2013</p>
PPNIV14	<p style="text-align: center;">Modified flatbed tow truck model for stable and safe platooning in presences of lags,                      communication and sensing delays,  <i>Ali A., G. Garcia, and P. Martinet,</i>  <b>6th Workshop on Planning, Perception and Navigation for Intelligent Vehicles,</b>                      IROS-PPNIV14, Chicago, USA, pp. 169-173, September 14th, 2014,</p>
EWDOM14	<p style="text-align: center;">Robotic Deformable Object Cutting: From Simulation to Experimental Validation,  <i>P. Long, W. Khalil, P. Martinet,</i>  <b>European Workshop on Deformable Object Manipulation,</b>                      March 20th, 2014, Lyon, France</p>
PPNIV15a	<p style="text-align: center;">Collaborative Visual SLAM Framework for a Multi-Robot System,  <i>N. Chebrolu, D. Marquez-Gamez, P. Martinet,</i>  <b>7th Workshop on Planning, Perception and Navigation for Intelligent Vehicles,</b>                      IROS-PPNIV15, Hamburg, Germany, pp. 59-64, September 28, 2015</p>

### International Workshops (Continued)

Codes	References
PPNIV15b	<p>16 channels Velodyne versus planar LiDARs based perception system for Large Scale 2D-SLAM,  <i>S. Nobili, S. Dominguez-Quijada, G. Garcia, P. Martinet,</i>  <b>7th Workshop on Planning, Perception and Navigation for Intelligent Vehicles,</b>                      IROS-PPNIV15, Hamburg, Germany, pp. 131-136, September 28, 2015</p>
PPNIV16a	<p>Autonomous parking using a sensor based approach,  <i>D. Perez Morales, S. Dominguez Quijada, O. Kermorgant, P. Martinet,</i>  <b>8th Workshop on Planning, Perception and Navigation for Intelligent Vehicles,</b>                      ITSC16-PPNIV'16, Rio de Janeiro, Brazil November 1st, 2016</p>
PPNIV16b	<p>Sensor based navigation,  <i>P. Martinet, G. Garcia, S. Dominguez, O. Kermorgant</i>  <b>8th Workshop on Planning, Perception and Navigation for Intelligent Vehicles,</b>                      Keynote, ITSC16-PPNIV'16, Rio de Janeiro, Brazil November 1st, 2016</p>
ATBPR16	<p>Advanced control of parallel robots and its extension to,                      other research fields,  <i>P. Martinet, S. Briot</i>  <b>Application of the theoretical background in Parallel Robotics,</b>  <b>to other research areas,</b>                      Keynote, ICRA16-ATBPR16, Stockholm, Sweden, May 16th, 2016</p>



## National conferences

Codes	References
AP00	<p>Guidage d'un engin agricole par CP-DGPS : comparaison de deux estimateurs d'orientation  <i>L. Cordesses, C. Cariou, P. Martinet, M. Berducat</i>  <b>Conférence nationale : La recherche technologique et industrielle au service de l'agriculture de précision</b>            AP'2000, Enesad et Cemagref, 6p, Dijon, France, 29-30 mai 2000</p>
GRETSI01	<p>Détection et suivi de véhicules par vision  <i>X. Clady, F. Collange, F. Jurie, B. Thuilot, P. Martinet</i>  <b>Colloque GRETSI sur le Traitement du Signal et de l'Image</b>            GRETSI'01, CD-ROM, Toulouse, France, 10-13 Septembre 2001</p>
UGV02	<p>Utilisation d'un outils de métrologie par vision pour l'étalonnage de machine outils  <i>P. Renaud, N. Andreff, M. Dhome, P. Martinet</i>  <b>Conférence Nationale : Assises 2002 sur l'Usinage Grande Vitesse</b>            UGV'02, pp. 151-160, Lille, France, march 13-14th, 2002</p>
JJCR02	<p>Identification géométrique d'un robot parallèle H4 à l'aide d'un outil de métrologie par vision  <i>P. Renaud, N. Andreff, F. Marquet, M. Dhome, G. Gogu, P. Martinet, F. Pierrot</i>  <b>16<sup>mes</sup> Journées des Jeunes Chercheurs en Robotique</b>            JJCR'02, Villeurbanne, France, September 2002</p>
PRIMECA03	<p>Etalonnage géométrique de mécanismes parallèles par vision  <i>P. Renaud, N. Andreff, G. Gogu, P. Martinet, F. Marquet</i>  <b>Colloque national AIP Priméca</b>            PRIMECA'03, La Plagne, France, march 2003</p>
RFIA04	<p>Identification géométrique de mécanismes parallèles par vision  <i>P. Renaud, N. Andreff, P. Martinet, G. Gogu, M. Dhome</i>  <b>Conférence Nationale : Reconnaissance des Formes et Intelligence Artificielle</b>            RFIA'04, pp 341-350, Toulouse, France, January 28-30th, 2004</p>
RFIA04	<p>Utilisation des droites en asservissement visuel omnidirectionnel  <i>Y. Mezouar, H. Hadj Abdelkader, P. Martinet</i>  <b>Conférence Nationale : Reconnaissance des Formes et Intelligence Artificielle</b>            RFIA'04, pp 1435-1442, Toulouse, France, January 28-30th, 2004</p>
EDSPI05	<p>Une Stratégie de Commande Globale pour le Convoi de Véhicules Urbains basée sur des Lois de Commande Découplées Non-Linéaires  <i>J. Bom, B. Thuilot, F. Marmoiton, P. Martinet</i>  <b>Journées scientifique de l'Ecole doctorale SPI</b>            EDSPI05, pp., Clermont-Ferrand, France, June 27th, 2005</p>
EDSPI05	<p>Suivi de trajectoire haute précision pour les véhicules tout-terrains  <i>R. Lenain, B. Thuilot, C. Cariou, P. Martinet</i>  <b>Journées scientifique de l'Ecole doctorale SPI</b>            EDSPI05, pp., Clermont-Ferrand, France, June 27th, 2005</p>
ORASIS05	<p>Commande référencée vision d'une plateforme de Gough-Stewart par observation des éléments cinématiques  <i>T. Dallej, N. Andreff, P. Martinet</i>  <b>Neuvièmes Journées des Jeunes Chercheurs en Vision par Ordinateur</b>            ORASIS'05, 8 pages, Fournols, France, May 24-27th, 2005</p>
JNRR05	<p>Méthodes de l'automatique pour l'assistance et l'automatisation de la conduite automobile  <i>S. Mammarr, P. Martinet, S. Glaser, M. Netto, L. Nowelière, B. Thuilot</i>  <b>Journées Nationales de la Recherche en Robotique</b>            JNRR05, pp., Guidel, Morbihan, France, October 5-7th, 2005</p>

### National conferences (Continued)

Codes	References
RFIA06	Utilisation des droites polaires en asservissement visuel omnidirectionnel <i>H. Hadj Abdelkader, Y. Mezouar, N. Andreff, P. Martinet</i> <b>Conférence Nationale : Reconnaissance des Formes et Intelligence Artificielle</b> RFIA'06, paper , Tours, France, January 25-27th, 2006
STIC06	Spatial Optimization of Fertilizer Application by Centrifugal Spreading <i>T. Virin, J. Koko, E. Piron, P. Martinet, M. Berducat</i> <b>4ème Conférence STIC et Environnement</b> STIC'06, pp. 8C-8D, Narbonne, France, 5-7 Avril, 2006
CAR08a	SoViN: A software platform for visual navigation <i>L. Lequière, J. Courbon, Y. Mezouar, P. Martinet,</i> <b>3rd National Conference on Control Architectures of Robots,</b> CAR'08, Bourges, France, May 29-30th, 2008
CAR08b	Toward an hybrid control architecture for a mobile multi-robot systems <i>A. Benzerrouk, L. Adouane, P. Martinet, N. Andreff,</i> <b>3rd National Conference on Control Architectures of Robots,</b> CAR'08, Bourges, France, May 29-30th, 2008
CAR08c	PROTEUS: A platform to organize transfer inside French robotic community <i>B. Patin, P. Martinet,</i> <b>3rd National Conference on Control Architectures of Robots,</b> CAR'08, Bourges, France, May 29-30th, 2008
SLAM09	Topological navigation using sensory memory: SLAN versus SLAM <i>P. Martinet, J. Courbon, Y. Mezouar, B. Thuilot,</i> <b>Journée SLAM, Dassault-Aviation,</b> SLAM'09, Saint-Cloud, France, December 16th, 2009,
MEATIN09	Perspectives de robotisation dans la filière viande <i>E. Lemoine, P. Martinet,</i> <b>MEAT'IN Les innovations dans la filière viande et produits carnés,</b> MEAT'IN09, Theix, France, November 17-28th, 2009,
JNRH10	Commande par vision d'un robot redondant multi-bras Manipulation deux bras avec le HRP2 <i>A. Abou Moughlbay, P. Martinet, J.C. Renaud, N. Mansart,</i> <b>5èmes Journées Nationales de la Robotique Humanoïde,</b> JNRH10, Poitiers, France, 3-4 juin 2010,
CAR10	Control Architecture for Cooperative Mobile Robots using Multi-Agent based Coordination Approach <i>M. Mouad, L. Adouane, P. Schmitt, D. Khadraoui, P. Martinet,</i> <b>2011 National Conference on Control Architectures of Robots,</b> CAR11, Grenoble, France, May 24th, 2011,
CAR13	Dynamique latérale et longitudinale découplée pour la commande dun convoi urbain <i>A. Ali, G. Garcia, P. Martinet,</i> <b>2013 National Conference on Control Architectures of Robots,</b> CAR13, Angers, France, 12-13 June, 2013,
JFPDA13	Résolution approchée par décomposition de processus décisionnels de Markov appliquée à l'exploration en robotique mobile <i>G. Lozenguez, L. Adouane, A. Beynier, P. Martinet and A.I. Mouaddib,</i> <b>8èmes Journées Francophones sur la Planification, la Décision et l'Apprentissage pour la conduite de systèmes,</b> Lille, 01-02 juillet 2013

## National Workshops

Codes	References
RFIA06	De la navigation autonome à la navigation en convoi <i>B. Thuilot, P. Martinet, M. Dhome, J.M. Lavest</i> <b>Workshop on "Navigation autonome de véhicules en milieu urbain - ROBEA-BODEGA / CNRS-INRIA"</b> RFIA'06, Tours, France, January 24th, 2006

## Research Journey - Tutorials - Summer Schools

Codes	References
SARTA91	<p style="text-align: center;">Modélisation d'informations visuelles à partir d'un capteur caméra/laser(1)  Windis: Architecture parallèle pour les applications d'asservissement visuel(2)  <i>P. Martinet</i>  <b>Journées du Pôle SARTA</b>  LRP, Paris, 2-3 octobre 1991</p>
SARTA95	<p style="text-align: center;">Asservissement visuel sur des paramètres 2D ou 3D - Comparaison des 2 approches  <i>P. Martinet</i>  <b>Journées du Pôle SARTA</b>  LASMEA, Clermont-Ferrand, 3-4 octobre 1995</p>
SYROCO97	<p style="text-align: center;">AGV for Agricultural and Green Space fields  <i>P. Martinet</i>  <b>Tutorial on Modelling and Control of Wheeled Mobile Robots:  Theoretical results and Applications</b>  SYROCO'97, Nantes, France, 2 September 1997.</p>
JAAA97	<p style="text-align: center;">Asservissement visuel pour le guidage d'engins agricoles  <i>P. Martinet, C. Debain, M. Berducat, P. Bonton, J. Gallice</i>  <b>Journées Automatique, Agriculture et Agro-Alimentaire  Club EEA, MENESR, PRC-GdR Automatique et ISIS</b>  J3A'97, pp 213-223, Clermont-Ferrand, France, 28-29 Octobre 1997</p>
GRAVIR98	<p style="text-align: center;">Commande latérale de robot mobile dans l'espace image  <i>P. Martinet, C. Thibaud, D. Khadraoui, J. Gallice</i>  <b>Séminaire scientifique du groupe de recherche GRAVIR  LASMEA, UMR 6602</b>  GRAVIR'98, Clermont-Ferrand, France, 16 Avril 1998</p>
CHMAC99	<p style="text-align: center;">Commande latérale et longitudinale de véhicule automobile  <i>P. Martinet</i>  <b>Journées du PRC-GdR CHMAC</b>  CHMAC'99, Cluny , France, 7-8 Septembre 1999</p>
ISIS00	<p style="text-align: center;">Utilisation de la Stéréovision en asservissement visuel :  Cas de la primitive point - Comparaison d'approches  <i>P. Martinet, E. Cervera</i>  <b>Journées du PRC-GdR ISIS</b>  ISIS'00, Rennes , France, 12 Décembre 2000</p>
EURON01	<p style="text-align: center;">Visual Servoing in Robotics  <i>P. Martinet</i>  <b>EURON Summer School on Robotic and Biologically-Inspired  Manipulation - Lecture in english</b>  EURON'01, Benicassim , Spain, 10-14 September 2001</p>
EURON02	<p style="text-align: center;">Visual Servoing - Introduction to Robotics  <i>P. Martinet</i>  <b>EURON Summer School on Visual Servoing : Lecture in english</b>  EURON'02, Benicassim , Spain, 16-20 September 2002</p>
EURON04 IROS04	<p style="text-align: center;">A tutorial on Advanced Visual Servoing  <i>P. Martinet</i>  <b>IEEE/RSJ International Conference on Intelligent Robots and Systems  Introduction to Visual servoing - Lecture in english</b>  EURON-IROS'04, Sendai, Japan, September 26th, web-site  <a href="http://www.robot.uji.es/EURON/visualservoing/tutorial/">http://www.robot.uji.es/EURON/visualservoing/tutorial/</a></p>

## Research Journey - Tutorials - Summer Schools

Codes	References
SSIR06	Visual Servoing <i>P. Martinet</i> <b>Summer School on Image and Robotics : Lecture in english</b> SSIR'06, Montpellier, France, 3-14 July 2006
SSIR08	Vision/Force coupling <i>P. Martinet</i> <b>Summer School on Image and Robotics : Lecture in english</b> SSIR'08, Clermont-Ferrand, France, June 23th to July 4th 2008
SSIR09	Visual Servoing <i>P. Martinet</i> <b>Summer School on Image and Robotics : Lecture in english</b> SSIR'09, INAOE, Tonantzintla, Puebla Mexico, June 8th to 18th, 2009
CPTS10	Visual Servoing <i>P. Martinet</i> <b>2010 KFJRC/SKKU-ICE International Joint Extended School on Cognitive Personal Transport Service Robot : Lecture in english</b> CPTS10, Suwon, South Korea, October 5-6th, 2010
SSIR11	Visual Servoing <i>P. Martinet</i> <b>Summer School on Image and Robotics : Lecture in english</b> SSIR'11, UPJF, Grenoble, July 4-13th, 2011
JRA12	Les systèmes hybrides pour garantir la stabilité des architectures multi-controlleurs dédiées à la navigation des robots mobiles <i>L. Adouane, P. Martinet</i> <b>Journées Scientifiques Robotique et Automatique GdR Robotique, GdR MACS, Club EEA</b> JRA'12, IRCCYN, Nantes, October 23-24th, 2012
JMMN14	Highways platooning using a flatbed tow truck model <i>A. Ali, G. Garcia, P. Martinet,</i> <b>Journées mobilité en milieux naturels,</b> Montoldre, France, April 16-17th, 2014
GTAA15	Enhanced Flatbed Tow Truck Model: Stable and Safe Platooning in the Presences of Lags, Communication and Sensing Delays <i>A. Ali, G. Garcia, P. Martinet,</i> <b>GTAA (Groupe de Travail GdR MACS Automatique et automobile), GTAA15, Nantes, France, June 4th, 2015</b>
JISIS16	Enhanced unified camera model <i>B. Khomutenko, G. Garcia, P. Martinet,</i> <b>Vision et modélisation 3D d'environnements dynamiques, Journée du GdR ISIS</b> Paris, June, 6 juin 2016

## 6 Supervisory staff

### MASTER

Year	Name	Subject
1992	Khadraoui Djamel	Commande Référencée Vision - Application à la robotique Mobile
1993	Perez Nuria	Etude et Implantation d'algorithmes d'extraction de primitives sur la machine parallèle Windis
1994	Borel Isabelle	Stratégie de gestion multi-fenêtrage en vision active (1.5 mois)
1994	Berry François	Développement et intégration sur une plateforme robotique de suivi de primitives à partir de la mesure du flot optique
1995	Cariou Christophe	Modélisation de primitives dynamiques en vision active
1996	Mars Jean-Pierre	Etude et réalisation d'un modèle dynamique d'un robot cartésien
1997	Leperon Christophe	Etude et implantation d'une loi de commande dynamique sur robot cartésien
1998	Mezouar Youcef	Comparaison de lois de commande 2D et 3D
2002	Guillaume Blanc	Saisie d'objets par vision : couplage vision/force
2006	Suyeon Hong	Extrinsic Free Visual Servoing
2006	Seung Lee	Automatic generation of target features
2009	Jean-Charles Renaud	Asservissement Visuel sur le Robot Humanoïde HRP-2
2012	Hendry Ferreira Chame	Visual servoing in a model based control framework
2012	Bing Yu	Vision based autonomous navigation of mobile robot in urban environment
2012	I. Perederiev	Visual servoing using spherical projection approach
2012	Sylvain Vandrenotte	Monocular SLAM
2012	Gaurav Gunjan	Stereo SLAM
2013	Giovanni Claudio	Pose and velocity Estimation
2013	Michelle Garcia Prieto	Hybrid Localization for Automotive Navigation
2014	Bogdan Khomutenko	Robust Visual Odometry for Intelligent Transportation System Applications
2014	Izzatbek Mukhanov	Pedestrian Detection And Tracking
2015	Nived Chebrolu	Collaborative Visual SLAM
2015	Muhammad Aqib Khan	Modeling and Control of Platoon of off-road Robots
2015	Harsh Maithani	Vision-Force based grasping using Schunk SVH 5 Fingers hand
2015	Simona Nobili	SLAM-MOT using a 16 Planes Velodyne
2016	Ayman Miri	OffRoad vehicle platooning
2016	Yevgeniy Martsynovskyy	Visual servoing of cable driven parallel robot
2016	Nicole Camous	VCollaborative Visual SLAM
2016	David Perez Morales	Autonomous Parking
2016	Vyshakh Palli Thazha	Definition of an active deformation model for manipulation of flexible object
2016	Vignesh Raja Ponnambalam	Social navigation function
2016	Rafael Balderas Hill	Automatic Dynamic Reconfigurability of Parallel Robot by Crossing Type 2 Singularities
2017	Ashwin Sushil	OffRoad vehicle platooning

## Post-Doct

<b>Year</b>	<b>Name</b>	<b>Subject</b>
98-99	Enric Cervera From 01/09/98 to 31/02/99	Comparaison de lois de commande 2D et 3D <i>Supervisor : P. Martinet</i>
03-04	Fang Hao From 01/12/03 to 31/11/04	Modélisation et commande d'engins mobiles sur terrains à surface variable et accidentés <i>Supervisor : P. Martinet</i>
10	Nicolas Bouton  du 01/01/10 au 31/08/10	Réalisation de maquettes numériques pour la commande de robots parallèles <i>Supervisor : P. Martinet</i>
10-12	Clément Fouque du 01/10/10 au 30/06/12	Urban challenge <i>Supervisor : P. Martinet</i>
11-13	Tej Dallej du 01/01/11 au 31/03/13	Visual servoing of parallel wire driven robots <i>Supervisor : N. Andreff, P. Martinet</i>

## PhD Thesis

Year	Name	Subject	Jury
92-96	Khadraoui Djamel 13/12/96	La commande référencée vision pour le guidage de véhicules  <i>PhD supervisor : J. Gallice</i>	<i>President</i> B. Espiau <i>Rev.</i> B. Espiau - W. Khalil <i>Ex.</i> J. Gallice - C. Thibaud <i>Ex.</i> P. Martinet - F. Chaumette
93-96	Debain Christophe 13/09/96	Lois de commande pour le contrôle et la mobilité de Machines agricoles  <i>PhD supervisor : P. Bonton</i>	<i>President</i> J. Gallice <i>Rev.</i> A. Fournier - P. Rives <i>Ex.</i> P. Bonton - M. Berducat <i>Ex.</i> P. Martinet <i>Inv.</i> J.P. Catros
95-98	Berry François 02/02/99	Contournement d'objets complexes par asservissement visuel <i>PhD supervisor : J. Gallice</i>	<i>President</i> M. Dhome <i>Rev.</i> F. Chaumette - D. Meizel <i>Ex.</i> J. Gallice - P. Martinet
97-01	Cordesses Lionel  18/07/01	Guidage de robots mobiles par GPS cinématique  <i>PhD supervisor : J. Gallice</i>	<i>President</i> J. Gallice <i>Rev.</i> W. Khalil - D. Meizel <i>Ex.</i> B. Thuilot - P. Martinet <i>Ex.</i> F. Peyret <i>Inv.</i> M. Berducat - C. Cariou
99-03	Clady Xavier 06/01/03	Contribution à la navigation autonome de véhicule automobile par vision  <i>PhD supervisor : P. Martinet</i>	<i>President</i> J. M. Blosseville <i>Rev.</i> C. Laurgeau - M. Devy <i>Ex.</i> F. Collange - F. Jurie <i>Ex.</i> P. Martinet
00-03	Renaud Pierre 25/09/03	Apport de la vision pour l'identification des machines complexes et des robots <i>PhD supervisor :</i> <i>G. Gogu, P. Martinet</i>	<i>President</i> J.P. Merlet <i>Rev.</i> W. Khalil - F. Pierrot <i>Ex.</i> G. Gogu - P. Martinet <i>Ex.</i> J.M. Lavest
01-04	Chalimbaud Pierre 17/12/04	Conception d'une plateforme d'implémenta- tion matérielle dédiée aux systèmes de vision active basés sur un imageur CMOS <i>PhD supervisor : P. Martinet</i>	<i>President</i> Y. Ni <i>Rev.</i> R. Zapata - D. Demigny <i>Ex.</i> F. Berry - J. Serot <i>Ex.</i> P. Martinet
02-05	Lenain Roland 14/11/05	Contrôle de la mobilité de véhicule en présence de glissements par RTK-GPS  <i>PhD supervisor : P. Martinet</i>	<i>President</i> W. Khalil <i>Rev.</i> B. D'Andrea Novel - N. M'sirdi <i>Rev.</i> R. Johansson <i>Ex.</i> B. Thuilot <i>Ex.</i> M. Berducat - M. Richetin
02-06	Bom Jonathan 20/07/06	Etude et mise en convoi d'un véhicule urbain avec accrochage immatériel  <i>PhD supervisor : P. Martinet</i>	<i>President</i> R. Chapuis <i>Rev.</i> B. Jouvencel, N. Lefort-Piat <i>Ex.</i> P. Martinet, B. Thuilot <i>Ex.</i> D. Salle
03-06	Hadj Abedlkader Hicham 30/11/06	Asservissement visuel omnidirectionnel  <i>PhD supervisor : P. Martinet</i>	<i>President</i> B. Espiau <i>Rev.</i> F. Chaumette, E. M. Mouaddib <i>Ex.</i> M. Dhome - E. Malis <i>Ex.</i> N. Andreff - Y. Mezouar
02-07	Blanc Guillaume	Navigation autonome d'un robot mobile d'intérieur par vision artificielle <i>PhD supervisor : P. Martinet</i>	Guillaume has set up a company
03-07	Virin Teddy 02/03/07	Modélisation, Optimisation et Contrôle d'un processus d'épandage pour applications agricoles <i>PhD supervisor : P. Martinet</i>	<i>President</i> P. Mahey <i>Rev.</i> P. Villon, D. Meizel <i>Ex.</i> J. Koko, P. Soueres <i>Ex.</i> E. Piron



## PhD Thesis

Year	Name	Subject	Jury
04-07	Tej Dallej 06/12/07	Asservissement visuel des robots parallèles par observation des jambes <i>PhD supervisor : P. Martinet</i>	<i>President</i> M. Dhome <i>Rev.</i> F. Pierrot, F. Chaumette <i>Ex.</i> N. Andreff, D. Daney
05-09	Flavien Paccot 05/07/09	Asservissement visuel dynamique des robots parallèles  <i>PhD supervisor: P. Martinet</i>	<i>President</i> <i>Rev.</i> J. Gangloff, F. Pierrot <i>Ex.</i> N. Andreff, G. Gogu
06-09	Jonathan Courbon 08/12/09	Navigation autonome par mémoire sensorielle <i>PhD supervisor: P. Martinet</i>	<i>President</i> M. Mouaddib <i>Rev.</i> S. Lacroix, P. Rives <i>Ex.</i> Y. Mezouar, N. Guenard
06-09	Nicolas Bouton 25/11/09	Stabilité dynamique des véhicules agricoles <i>PhD supervisor: P. Martinet</i>	<i>President</i> W. Khalil <i>Rev.</i> N. M'Sirdi, D. Meizel <i>Ex.</i> R. Lenain, B. Thuilot
06-10	Redwan Dahmouche 18/11/10	Contribution à l'estimation de mouvement 3D et à la commande par vision rapide : Application aux robots parallèles <i>PhD supervisor: N. Andreff</i>	<i>President</i> W. Khalil <i>Rev.</i> E. Marchand, F. Pierrot P. Martinet, Y. Mezouar
06-10	Pierre Avanzini  06/12/10	Modélisation et commande d'un convoi de véhicules urbains par vision avec accrochage immatériel <i>PhD supervisor: P. Martinet</i>	<i>President</i> J.P. Derutin <i>Rev.</i> T. Fraichard, D. Meizel <i>Ex.</i> J. Ibanez-Guzman <i>Ex.</i> B. Thuilot
07-10	Ahmed Benzerouk 17/04/2011	Hybrid control architecture for multi-robots platform  <i>PhD supervisor: N. Andreff</i>	<i>President</i> T. Fraichard <i>Rev.</i> R. Alami, R. Zapata <i>Ex.</i> P. Martinet, L. Adouane
07-12	Christophe Cariou  02/04/2012	Commande d'un véhicule non holonome en environnement naturel  <i>PhD supervisor: P. Martinet</i>	<i>President</i> C. Laugier <i>Rev.</i> Y. Baudoin, P. Morin <i>Ex.</i> B. Thuilot, R. Lenain <i>Ex.</i> J. Stephant, M. Berducat
09-12	Erol Ozgur 13/07/2012	From Lines To Dynamics of Parallel Robots  <i>PhD supervisor: N. Andreff</i>	<i>President</i> G. Gogu <i>Rev.</i> J.P. Merlet, J. Gangloff <i>Ex.</i> P. Martinet, S. Briot
09-12	Guillaume Lozenguez  11/12/2012	Stratégies coopératives pour l'exploration et la couverture spatiale d'un flotte spatiale d'un flotte de robots explorateurs <i>PhD supervisor: P. Martinet, A. Mouaddib</i>	<i>President</i> N. Piat <i>Rev.</i> R. Chatila, D. Duhaut <i>Ex.</i> L. Adouane, A. Beynier <i>Ex.</i> A. Koukam
09-13	Amine Abou Moughlbay 21/05/2013	Commande d'un système multi-bras pour la manipulation d'objets : Application à la commande de l'Humanoïde HRP2 <i>PhD supervisor: P. Martinet</i>	<i>President</i> W. Khalil <i>Rev.</i> A. Del Pobil, N. Andreff <i>Ex.</i>
09-14	Mehdi Mouad  31/01/2014	Control and Management Architecture for Distributed Autonomous Systems: application to multiple mobile vehicles based platform <i>PhD supervisor: P. Martinet</i>	<i>President</i> N. Agoulmine <i>Rev.</i> P. Vieyres, Z. Guessoum <i>Ex.</i> D. Khadraoui, C. Novales <i>Ex.</i> L. Adouane
11-14	Philip Long  15/10/2014	Commande par couplage vision/force d'un système multi-bras redondants : Application à la manipulation d'objets rigides et déformables <i>PhD supervisor: W. Khalil, P. Martinet</i>	<i>President</i> V. Perdereau <i>Rev.</i> G. Gogu, P. Poignet

## Phd thesis

Year	Name	Subject	Jury
11-14	George Pagis 13/01/2015	Modeling and control of reconfigurable parallel robots  <i>PhD supervisor: P. Martinet</i>	<i>President P. Poignet</i> <i>Rev. N. Andreff, J.P. Merlet</i> <i>Ex. L. Bonev, N. Bouton</i>
11-15	Alan Ali 21/09/2015	Modelling and Control of Autonomous Urban Vehicles Platoon  <i>PhD supervisor: P. Martinet</i>	<i>President P. Bonnifait</i> <i>Rev. F. Charpillet, F. Nashashibi</i> <i>Ex. G. Garcia, W. Khalil</i> <i>Ex. B. Thuilot</i>
12-15	Victor Rosenzveig 25/09/2015	Sensor based design and control of high speed robots  <i>PhD supervisor: P. Martinet</i>	<i>President J.P. Merlet</i> <i>Rev. N. Andreff, F. Chaumette</i> <i>Ex. S. Briot, N. Bouton</i>
12-16 29/06/16	Sylvain Vandernotte	Manipulation référencée multi-capteurs d'objets manufacturés  <i>PhD supervisor: P. Martinet</i>	<i>President Y. Aoustin</i> <i>Rev. N. Andreff, V. Perdereau</i> <i>Ex. A. Chriette, P. Rabate</i> <i>Ex. A. Suarez, A. Girin</i>
14-17	Bogdan Khomutenko	Automatic learning and building of a sensory memory in topological sensory navigation  <i>PhD supervisor: P. Martinet</i>	In progress: 3 <sup>rd</sup> year
15-18	Yrvann Emzivat	Maîtrise de la complexité et de l'intégrité de systèmes : Application aux systèmes autonomes  <i>PhD supervisors: O.H. Roux and P. Martinet</i>	In progress: 2 <sup>nd</sup> year
15-18	Luis Contreras	SLAM in unstructured environment  <i>PhD supervisor: P. Martinet</i>	In progress: 2 <sup>nd</sup> year
15-18	Anoop Vargheese	Collaborative SLAM in platoon applications  <i>PhD supervisor: P. Martinet</i>	In progress: 2 <sup>nd</sup> year
15-18	Damien Six	Conception et commande de robots parallèles volants  <i>PhD supervisor: S. Briot</i>	In progress: 2 <sup>nd</sup> year
15-18	Lila Kaci	Conception d'un robot industriel en bois  <i>PhD supervisor: S. Briot</i>	In progress: 2 <sup>nd</sup> year
16-19	Rafael Balderas-Hill	Design of High-speed Robots with Drastically Reduced Energy Consumption  <i>PhD supervisor: S. Briot</i>	In progress: 1 <sup>st</sup> year

### Participation in internal Habilitation jurys

<b>Year</b>	<b>Name</b>	<b>Subject</b>	<b>Jury</b>
2006	Nicolas Andreff  13/07/2006	Des droites et des robots  Habilitation supervisor : P. Martinet	<i>President</i> M. Richetin <i>Rev.</i> W. Khalil, J.P. Merlet <i>Rev.</i> B. Siciliano <i>Ex.</i> F. Chaumette, G. Gogu, <i>Ex.</i> P. Martinet
2009	Youcef Mezouar 19/11/2009	Visual servoing of robots  Habilitation supervisor: P. Martinet	<i>President</i> P. Rives <i>Rev.</i> F. Chaumette, E.M. Mouaddib <i>Ex.</i> S. Hutchinson, H. Araujo <i>Ex.</i> P. Martinet
2011	Roland Lenain 9/12/2011	Commande de robots à dynamiques incertaines : Le cas des robots mobiles tout-terrain Habilitation supervisor: P. Martinet	<i>President</i> W. Khalil <i>Rev.</i> P. Bidaud, M. Dhome, D. Meizel <i>Ex.</i> C. Samson, P. Martinet
2016	Sébastien Briot 11/01/2016	Contributions à la maîtrise de la dynamique des robots parallèles Habilitation supervisor: P. Martinet	<i>President</i> E. Dombre <i>Rev.</i> N. Andreff, S. Zegloul, J.P. Merlet <i>Ex.</i> Y. Aoustin, P. Martinet

### Participation in external PhD jurys

Year	Name	Subject	Func.	Laboratory
1999	Armel Cretual	Asservissement visuel à partir d'informations de mouvement dans l'image	Ex.	IRISA Vista Project
2001	Jean-Michel Gaudin	Conception d'un système hybride GPS-Estime pour la localisation en condition de visibilité satellitaire réduite	Rev.	LIRMM Cemagref
2001	Youcef Mezouar	Planification de trajectoires pour l'asservissement visuel	Rev.	IRISA Vista Project
2001	Cyril Cauchois	Modélisation et calibration du capteur Omnidirectionnel SYCLOP : Application à la localisation absolue en milieu structuré	Rev.	CREA Amiens
2001	Erwann Lavarec	Estimation de mouvements 3D à l'aide d'une caméra et de capteurs proprioceptifs	Rev.	LIRMM Montpellier
2002	Patrice Wira	Réseaux neuromimétiques, modularité et statistiques : estimation du mouvement pour l'asservissement visuel	Rev.	MIPS-TROP Mulhouse
2002	Delphine Bellot	Contribution à l'analyse et à la synthèse de schémas de commande référencée vision	Ex.	LAAS Toulouse
2002	Jérôme Albaric	Commande d'une plate-forme multi manipulateurs mobiles non-holonomes par actions réflexes	Rev.	LIRMM Montpellier
2002	Vincent Creuze	Navigation référencée terrain pour véhicule autonome sous-marin	Rev.	LIRMM Montpellier
2002	Frédéric Marquet	Contribution à l'étude de l'apport de la redondance en robotique parallèle	Rev.	LIRMM Montpellier
2002	Raul Marin	The UJI Online robot : a distributed architecture for pattern recognition, autonomous grasping and augmented reality	Rev.	Jaume I university Robotic Intelligence Laboratory, Castellon, Spain
2003	Gabriel Recatalla Ballester	Visual determination, tracking and execution of 2D grasps using a behavior-inspired approach	Rev.	Jaume I university Robotic Intelligence Laboratory, Castellon, Spain
2003	Christophe Coue	Modèle bayésien pour l'analyse multimodale d'environnements dynamiques et encombrés : Application à l'assistance à la conduite en milieu urbain	Rev.	INRIA Rhone-Alpes Emotion Grenoble
2003	Alexandre Krupa	Commande par vision d'un robot de chirurgie laparoscopique	Rev.	LSIIT Strasbourg
2003	Karima Rochdi	Etude, commande et applications du transducteur piézo-electrique en basse tension	Rev.	LAB Besançon
2004	Omar Tahri	Application des moments à l'asservissement visuel et au calcul de pose	Rev.	IRISA Vista Project
2004	François Guerin	Commande conjuguée d'un robot mobile Modélisation dynamique et vision artificielle	Rev.	GREAH Le Havre

## Participation in external PhD jurys

Year	Name	Subject	Func.	Laboratory
2004	Andres Vivas	Contribution à l'identification et à la commande des robots parallèles	<i>Rev.</i>	LIRMM Montpellier
2006	Radu Orghidan	Catadioptric Stereo based on Structured Light Projection	<i>Rev.</i>	Girona University
2007	Fabrice Boyer	Planification de mouvements dynamiques appliquée à la conception de la liaison au sol	<i>Rev.</i>	LAAS Toulouse
2008	Damien Lhomme Desages	Commande d'un robot mobile rapide à roues non directionnelles sur sol naturel	<i>Rev.</i>	ISIR Paris VI
2008	Vincent Brandou	Stéréovision locale et reconstruction 3D/4D	<i>Rev.</i>	INRIA/IFREMER Sophia-Antipolis
2008	Rodrigo Benenson	Perception for urban driverless vehicles: design and implementation	<i>Rev.</i>	Ecole des Mines Paris
2008	Romeo Tatsambon	Asservissement visuel par projection sphérique	<i>Rev.</i>	IRISA Rennes
2009	Mario Prats	Robotic Physical interaction through the combination of Vision, Tactile and Force Feedback with applications to Assistive Robotic	<i>Rev.</i>	ISL Jaume I university
2009	Nicolas Morette	Contributions à la navigation de robots mobiles : approches par modèle direct et commande prédictive	<i>Rev.</i>	PRISME Orleans university
2010	Geert De Cubber	Variational methods for dense depth reconstruction from monocular and binocular video sequences	<i>Rev.</i>	IRIS VRIJE university
2010	Jean-François Layerle	Conception et calibration de systèmes de vision catadioptrique pour une application d'analyse du comportement de conduite	<i>Rev.</i>	MIS Picardie Jules Vernes university
2010	Guillaume Walk	Reconstruction 3D Automatique d'Objets Inconnus en vue d'Actions de Saisie et Manipulation	<i>Rev.</i>	ISIR Pierre et Marie Curie university
2010	Vivien Delsart	Navigation autonome en environnement dynamique : une approche par déformation de trajectoire	<i>Rev.</i>	Emotion Inria Rhone-Alpes
2010	Mohammed Marey	Contributions to control modeling in visual servoing, task redundancy, and joint limits avoidance	<i>Rev.</i>	Lagadic Inria Rennes
2010	Torea Foissotte	Modélisation Visuelle d'un Objet Inconnu par un Robot Humanoïde Autonome	<i>Ex.</i>	LIRMM Montpellier
2011	Dong Junfeng	View Based Mobile Robot Navigation: a Genetic Algorithmic Approach	<i>Rev.</i>	NTU Singapore
2011	Peyman Moghadam	Biologically Inspired Visual Intelligence for Unmanned Ground Vehicles	<i>Rev.</i>	NTU Singapore
2011	Olivier Kermorgant	Fusion d'informations multi-capteurs en asservissement visuel	<i>Rev.</i>	LAGADIC Rennes
2011	Gabriela Gallegos Garrido	Développement d'un capteur composite Vision/laser à couplage serré pour le SLAM d'intérieur	<i>Rev.</i>	AROBAS Sophia Antipolis
2011	Ester Martinez	Computer vision methods for robot tasks: Motion detection, Depth estimation and Tracking	<i>Rev.</i>	IRL Castellon de la Plana

### Participation in external PhD jurys

2011	Pauline Hamon	Modélisation et identification dynamiques des robots avec un modèle de frottement sec fonction de la charge et de la vitesse	<i>ex.</i>	IRCCYN CEA Fontenay aux roses
2012	Mohamed Anouar El Kamel	Stabilisation et régulation de robots mobiles opérant en groupe	<i>Rev.</i>	IBISC Evry
2012	Mohamed Larbi Krid	Commande en suivi de chemin et en roulis des robots mobiles rapides en présence de glissements et d'instabilités	<i>Rev.</i>	ISIR Paris
2012	Adrien Durand Petiteville	Navigation référencée multi-capteurs d'un robot mobile en environnement encombré	<i>Rev.</i>	LAAS Toulouse
2013	Jeff Delaune	Vision Based Navigation for Pinpoint Planetary Landing on any relief	<i>Rev.</i>	Onera Toulouse
2013	Junaid Baber	Improving the performance of local keypoint descriptors for image and video applications	<i>Rev.</i>	AIT Thailand
2013	Mathieu Richier	Conception de dispositifs actifs de maintien de stabilité pour les véhicules évoluant en milieux naturels	<i>Rev.</i>	IRSTEA Clermont-Fd
2013	Nabil Essahbi	Modélisation de corps mous appliquée à la commande de procédé robotisé de découpe anatomique de muscles	<i>Rev.</i>	Institut Pascal Clermont-Fd
2013	Gaetan Severac	Etude et simulation de mécanismes d'interaction pour l'exécution de missions d'exploration planétaire réalisées par un ensemble d'engins hétérogènes	<i>Rev.</i>	ONERA Toulouse
2013	Sayed Mohammad Hassan Anvar	Unsupervised face analysis from multi view	<i>Rev.</i>	NTU Singapore
2014	Barys Shyrokau	Coordinated Control of multi-actuated Electrical Vehicle	<i>Rev.</i>	NTU Singapore
2014	Lambert Trénoras	Analyse et interprétation des variations intentionnelles ou perturbatrices de la station debout sur gyropode	<i>Rev.</i>	LSIV Paris
2014	Romain Marie	Exploration autonome et construction de cartes topologiques référencées vision omnidirectionnelle	<i>Rev.</i>	MIS Amiens
2014	Sylvain Thorel	Conception et réalisation d'un drone hybride sol/air autonome	<i>Ex.</i>	EMP-CAOR Paris
2014	Baptiste Véron	Modélisation et commande des systèmes de manipulation magnétique sans contact - Vers l'amélioration du diagnostic en endoscopie digestive	<i>Rev.</i>	FEMTO Besançon
2015	Akshay Rao	Towards adaptive sensor fusion for simultaneous localization and mapping	<i>Rev.</i>	NTU Singapore
2015	Audrey Guillet	Commande locale décentralisée de robots mobiles en formation en milieu naturel	<i>Rev.</i>	IRSTEA Clermont-Fd
2015	Manikandan Bakthavatchallam	Utilisation of Photometric Moments in Visual Servoing	<i>Ex.</i>	IRISA Rennes
2015	Danilo Alvès de Lima	Sensor based navigation applied to intelligent electrical vehicles	<i>Rev.</i>	Heudiasyc Compiègne
2015	Dieumet Denis	Contribution à la modélisation et à la commande de robots mobiles reconfigurables en milieu tout terrain: application à la stabilité dynamique d'engins agricoles	<i>Ex.</i>	IRSTEA Clermont-Fd
2015	Jose Miguel Vilca Ventura	Safe and Flexible Hybrid Control Architecture for the Navigation in Formation of a Group of Vehicles	<i>Ex.</i>	Institut Pascal Clermont-Fd

### Participation in external PhD jurys

2016	Hendry Ferreira Chame	Reprsentations Ego-centres pour la Navigation Autonome dun Robot Humanode	<i>Ex. Pres.</i>	IRCCyN Nantes
2016	Lazher Zaidi	Modélisations et stratégie de prise pour la manipulation d'objets déformables	<i>Ex. Pres.</i>	IP Aubiere
2016	Pierre Merriaux	Contribution à la localisation robuste embarquée pour la navigation autonomes	<i>Ex. Pres.</i>	IRSEEM Rouen
2016	Vishnu Karakkat Narayanan	Characterizing adaptive shared control through vision-based and human-aware designs for wheelchair mobility assistance	<i>rev.</i>	IRISA Rennes
2016	Egor Sattarov	Contributions of context-aided multimodal perception systems for detection and tracking of moving objects	<i>rev.</i>	IEF Orsay

### Participation in external Habilitation jurys

Year	Name	Subject	Func.	Laboratory
2005	François Peyret	Robotique de chantier : la localisation appliquée à la construction des routes intégrées par ordinateur	<i>Rev.</i>	IRCCyN Nantes
2007	Vincent Hugel	De la locomotion à l'autonomie des robots à pattes	<i>Rev.</i>	LISV Versailles Saint Quentin
2008	Ezio Malis	Méthodologies d'estimation et de commande à partir d'un système de vision	<i>Ex.</i>	INRIA Sophia-Antipolis
2008	Joaquim Salvi	Acquiring Three-Dimensional Information from Images	<i>Ex.</i>	MIS Amiens
2011	Viviane Cadenat	Contribution à la navigation d'un robot mobile par commande référencée multi-capteurs	<i>Ex.</i>	LAAS Toulouse
2012	Vincent Frémont	Contribution des systèmes multi-caméras à la perception 3D embarquée	<i>Ex.</i>	Heudyasic Compi{ egne
2014	David Bétaille	Localisation de véhicule par satellites, couplée à la navigation à l'estime et aux données cartographiques	<i>Rev.</i>	IFSTTAR Nantes
2015	Lounis Adouane	Toward Fully Autonomous Vehicle Navigation using Hybrid Multi-controller Architectures	<i>Ex.</i>	Institut Pascal Clermont-Fd