

# Christian LAUGIER - Curriculum Vitae

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## Education & Academic positions

### Education

- “State Doctorate” & Habilitation to Supervise Research in Computer Science, National Polytechnic Institute of Grenoble (*INPG, 1987*), France.  
Thesis title: *Geometric Reasoning and Decision making Techniques in Robotics*.
- PhD in Computer Science, Grenoble University (*1976*).  
Topics: *Computer Graphics and Simulation*.
- Master in Computer Science, Grenoble University (*1973*).
- “Licence” and “Maîtrise” in Computer Science, Grenoble University (*1972*).
- “DUES” in *Mathematics and Physics*, Grenoble University (*1970*).

### Academic positions

- **Research Director at INRIA (1<sup>st</sup> class)**, INRIA Grenoble Rhône-Alpes – In charge of Scientific Relations with Asia & Oceania at INRIA International Affairs Department (*since January 2010*).
- **Research Director at INRIA (1<sup>st</sup> class)**, INRIA Grenoble Rhône-Alpes – Deputy Director of **LIG** (Laboratory of Informatics of Grenoble) (*since January 2007*).
- **Research Director at INRIA (2<sup>nd</sup> class)**, INRIA Grenoble Rhône-Alpes (*1.1.93 - 31.12.06*)
- **Research Director at INRIA (2<sup>nd</sup> class)**, LIFIA-IMAG (*1.8.89 - 31.12.92*) – Deputy Director of **LIFIA** (Laboratory of Fundamental Computer Science and Artificial Intelligence) (*1.5.87 – 31.12.92*).
- **Research Scientist at INRIA (1<sup>st</sup> class)**, LIFIA-IMAG Grenoble (*1.1.1984 - 31.7.1989*) – *Head of AI & Robotics Team*.
- **Research Engineer at INRIA**, LIFIA-IMAG Grenoble (*1.1.79 – 31.12.83*).
- **Research Associate at IMAG** (Laboratory of Informatics and Applied Mathematics of Grenoble), Temporary attached at the MICADO industrial company working in the field of CAD (*1978*).
- **Assistant Professor** at Grenoble University & Lyon University (*1.12.76 – 30.9.77*).
- **Contractual Researcher at IMAG**, Computer Graphics team (*1.1.74 – 30.11.76*).

# Professional Experience

## Research Themes

- Period 1: Computer graphics & CAD
- Period 2: Robot programming & simulation
- Period 3: Motion planning & CAD Robotics
- Period 4: Motion autonomy & Dynamic and Surgical Simulation
- **Current Period: Geometry and Probability for motion and action**

## Mobility

- *NTU - Singapore*: Invited professor at Nanyang Technological University, Singapore (*September 1998*).
- *MIT-USA*: Visiting researcher at MIT Boston, USA (*Summer 1987*).
- *Thematic mobility*: Moving from Computer Graphics to Robotics (*October 1979*).
- *MICADO*: One year stay in an industrial company in the field of CAD (*MICADO, 1978*).

## Student supervision

- **PhD theses**: **35** PhD theses supervised at the Doctoral School of INPG and of Ecole des Mines de Paris. Among these PhD theses, 1 have been co-directed with J.C. Latombe, 1 with A. Lux, 2 with J. Crowley, 5 with researchers of my research team (Th. Fraichard, O. Aycard, and A. Spalanzani). **3** PhD theses are still in progress.
- **HDR (habilitation to supervise research)**: HDR of Th. Fraichard.
- **CNAM theses**: **14** CNAM theses, 5 co-directed with researchers of my research team.
- **Others**: Many postdoctoral researchers and PhD students directed in the scope of various international programs; Many French or Foreign internships (engineers, Master students ...).

## Teaching activities

- **Courses given abroad**
  - Tutorial "Safe navigation in open and dynamic environments", C. Laugier & O. Aycard, Singapore, November 2005.
  - Tutorial "Technologies for motion autonomy", C. Laugier & O. Aycard, Singapore, May 2004.
  - Tutorial "Robotics, Motion planning, and Autonomous vehicles", ICARCV (Singapore, December 2000).
  - Tutorial "Robotics and autonomous systems", ISSAT (Damas, Feb. 2000).
  - Tutorial "Robotics, Sensing technologies, Autonomous vehicles", Oxford University (UK, July 1999).
  - Tutorial "Robotics and Autonomous vehicles", Xalapa, Mexico, March 1998.
  - Tutorial "Robotics and Motion Autonomy", Summer School on Image and Robotics (SSIR) : *Grenoble 2000, Curnavaca/Mexico 2001, Toulouse 2002, Puebla 2003, Sophia-Antipolis 2004, Guanajuato 2005, Montpellier 2006, Mexico 2007, Clermont-Ferrand 2008, Puebla 2009.*
- **Specialization courses**
  - Courses on "Robotics" for Engineers and Teachers, organized by the ITMI company (1983 – 1988);
  - Courses on "Computer Graphics" and on "Robotics" at INPG, at CUEFA, and at Nantes University (1975 – 1977 and 1982 – 1986).

- **Courses at the undergraduate level**

Courses and TD of "Mathematics" and "Computer Science" at Lyon University Claude Bernard (1976-77); TD of "Mathematics" at Grenoble II University (1973 – 1979); TD of "Computer Science" at INPG/ENSIMAG and at Grenoble I University (1975-1976 and 1976-1977).

- **Courses in engineering schools**

"Robotics" at CUEFA (CNAM, since 1991); "Robotics & Autonomous systems" at International School of Engineering EISTI Paris (2000-2003); "Mobile Robotics" and "Robotics & Industrial Automation" at INSTN (Saclay, 1991 – 1995); "Models and algorithms for Robotics", 3<sup>rd</sup> year ENSIMAG (INPG, 1983 – 1994) and 3<sup>rd</sup> year ENSIEG (INPG, 1985 – 1990).

- **Courses at the master level**

Co-Header of course "Vision & Robotics" at the International track of Master Program MOSIG M1 and "Autonomous Robots" at the International track of Master Program MOSIG M2 (*from 2008*); "Robotics and motion autonomy" at DEA/Master IVR (Image, Vision, Robotics) (*INPG, 2000-07*); "Models and algorithms for Robotics", DEA IVR (*INPG, 1995-99*); "Planning and decision making in robotics", DEA IVR (*INPG, 1995-2000*); "Models and algorithms for Robotics" at DEA of Computer Sciences (*INPG, 1983-1994*); "Decision making in Robotics", DEA of Computer Sciences (*INPG, 1985-94*).

## Collective Responsibilities

- **Research Responsibilities**

- Deputy Director of the Laboratory of Informatics of Grenoble (LIG) where INRIA is one of the partner (*since January 2007*); Deputy Director of the Laboratory of Fundamental Computer Science and Artificial Intelligence (LIFIA) (*1987-92*).
- Member of the "Evaluation Committee" (CE) of INRIA (*since September 2002*); Member of the Recruitment Jury CR2, CR1 and DR2 of INRIA (*since 2001*); Member of INRIA "Project Committee" (CP) of INRIA Sophia-Antipolis (*1990-91*) and of INRIA Grenoble Rhône-Alpes (*since 1991*).
- In charge of Conferences & Tutorials at INRIA Grenoble Rhône-Alpes (*since 1998*); In charge of Financial Affairs (*1993 – 1995*) of INRIA Grenoble Rhône-Alpes; President of the Fellowships Committee and then of the Postdoctoral Fellowship Committee of INRIA Grenoble Rhône-Alpes (*1993-99*).

- **International relations**

- In charge of Scientific Relations with Asia & Oceania at INRIA International Affairs Department (*since January 2010*).
- In charge of the International Relation Unit of the Laboratory of Informatics of Grenoble (*2007-08*).
- Delegate at INRIA Grenoble Rhône-Alpes of DRI INRIA (*2002-05*); Responsible at INRIA for the Scientific Relations with Singapore (*1998-2004*).
- Member of scientific committee of French-Korea (program STAR) of the French Foreign Affairs Ministry (*2002-04*).
- In charge of a large number of international cooperation program of INRIA: France-Mexico network on Image & Robotics (*Since 1999*); ICT-Asia "Fact" and "CityHome" projects on "Intelligent Transportation Systems" including France, Singapore, Korea, Japan and China (*2005-07 and 2008-10*); PICS CNRS on "Robotics and Neurophysiology" with NUS Singapore and Collège de France (*2004-07*); France-Berkeley project on "Dynamic Simulation"; International research contract on "Autonomous Ground Vehicles" with GINTIC Singapore and University of Sydney.

- **Research teams**

- Scientific Leader of the INRIA (EPI) research team *e-Motion* (*since 2004, 25 persons*).
- Scientific Leader of the former INRIA research team *CyberMove* (*2003*) and *EPI Sharp* (*1991-02*).
- Scientific Leader of the research team "Artificial Intelligence & Robotics" at the LIFIA Laboratory (~25 people, *1984 - 1991*).
- Coordinator of the European Network HEROS in Robotics (*1993 – 1995*); Responsible of the research group "Geometric Reasoning" of the French PRC-IA (*1992 – 1994*); Co-responsible of the Inter-PRC project VIA (*1994 – 1995*); Member of the board of the French PRC-IA (*1990 – 1996*); Responsible of the axis "Intelligent Vehicle" of the Scientific Department (GSE) Electric Vehicle of INPG (*1994 – 1998*).

- **Industry**

Member of the board (CA) of the AIP Dauphiné-Savoie (1994 – 1999); Member of the boards (CA and CS) of several industrial companies (ITMI 1984-1988, Aleph Technologies 1989-1990, Getris Images 1999-2000).

- **Research Contracts**

Responsibility of a large number of research contracts with several **French Governmental Agencies** (DGA, Research & Industry Ministries, CNC, French technological networks, Rhône-Alpes region ...), with **European Union** (Eurêka, Esprit, Intas, CHM, Copernicus FP6 ...), with several **Industrial Companies** (ITMI, Merlin-Gérin, AMD, MAT, PSA, Aleph Technologies, Getris Images, Robotsoft, EDF DER, Gec-Alsthom SES, Aesculap, Toyota, Denso, Renault ...).

## Scientific committees & Conferences organization committees

- **International scientific committees**

Chair of the IEEE RAS Technical Committee on ITS (*since 2005*); Steering/Advisory Committee of IEEE/RSJ IROS (*since 1997*); Steering Committee of the EURON European network (*2000-04*); Advisory Committee of ICARCV in Singapore (*since 2000*); Steering Committee of Field and Service Robotics (FSR) conference (*since 1997*).

- **French national scientific committees**

International strategic group for China at the French Ministry of Superior Education and Research (MESR); Inter-Ministerial scientific committee PREDIT group 9 (*since 2002*); Steering committee of CNRS RTP "Autonomous robotics" (*2003-04*); Scientific committee of French network ROBEA (*2001-2006*); Scientific committee of GDR "Robotics" (*since 2007*); Scientific committee of the French Program RISP of CNRS/CNES (spatial robotics); Scientific and Prospective committee COST on Robotics & Automation at CNRS (1985 - 1989); Scientific Committee of the IMAG institute (1990 – 1993).

- **Editorial committees**

Conference Editorial Board of IEEE RAS/ICRA (2010-12); Editorial board of the Journal "Intelligent Service Robotics" (*since 2005*); Associate Editor of the IEEE Transaction on Intelligent Transportation System (*since 2008*); Editorial committee of Artificial Intelligence Journal *RIA* (*since 1987*).

- **Organizing committees of international conferences**

- *General Chair* : IEEE/RSJ IROS'97 (France); Field and Service Robotics 2007 (France).  
- *Program Chair* : IEEE/RSJ IROS'02 (Switzerland); IEEE/RSJ IROS'08.  
- *Program Co-Chair* : IEEE/RSJ IROS'00 (Japan) ; IEEE IV'06 (Japan), IEEE/RSJ IROS'10 (Taiwan).  
- *Organizing committee*: IEEE ICRA'98 (Special session chair, Belgium); IEEE ICRA'00 (Publication co-chair, USA); IEEE ITSC'10 (Video proceedings co-chair); IEEE IROS'11 (Workshop & Tutorial co-chair).

- **Program committees of international conferences**

European Symposium on Robotics [ESR] (*Permanent committee, since 2005*); IEEE/RSJ International Conference on Intelligent Robots and Systems [IROS] (*since 1990*); IEEE International Conference on Robotics and Automation [ICRA] (*since 1995*); IEEE Intelligent Vehicles Symposium [IV] (*92, 93, 94, 02, 03*); International Conference on Automation, Robotics, Control and Vision [ICARCV] (*since 1998*); International Conference on Field and Service Robotics [FSR] (*since 1997*); IFAC Symposium on Intelligent Autonomous Vehicles [IAV] (*04*); Int. Conference on Intelligent Autonomous Systems [IAS] (*04*) ; IEEE International Symposium on Assembly and Task Planning [ISATP] (*96, 97, 99*); International Symposium on Automotive Technology and Automation [ISATA] (*92, 93, 94, 95*); International Symposium on Distributed Autonomous Systems [DARS] (*98, 00*); International Symposium on Robotics and Automation (*98, 00*); IEEE International Conference on Intelligent Transportation Systems [ITSC] (*99, 02*); Conférence C-Velec « Véhicules Electriques » (*97, 99, 01, 02*), International Workshop on Intelligent Robotic Systems [IRS] (*93, 94*); International Symposium on Industrial Robots [ISIR] (*95*); International Conference on CAD-CAM Robotics & Factories of the Future (*92*); France-Israel Symposium on Advances in Non-Manufacturing Robotics (*91*); Nato Workshop on CAD-Based Programming for Sensory Robots (*88*); Convention IA (*89*); IEEE International Workshop on Sensorial Integration for Industrial Robots (*89*);

IFS International Conference on Artificial Intelligence and Expert Systems (89), etc.

- **Conferences, Workshops, and Summer Schools organization**

- **Summer Schools:** Summer School on Image & Robotics (SSIR) (*Grenoble 2000, Curnavaca 2001, Toulouse 2002, Puebla 2003, Sophia-Antipolis 2004, Guanajuato 2005, Montpellier 2006, Mexico 2007, Clermont-Ferrand 2008, Puebla 2009*)

- **Workshops:** Workshop on "Autonomous vehicles and Cybercars" organised with Ming Yang (*Shanghai, May 2007*); Workshop on "Intelligent Transport Systems" organized in the scope of the ICT-Asia Network FACT (*Tokyo, June 2006*); Workshops on "Robotics and Neurophysiology" in the scope of the PICS CNRS 2612 (*Singapore 2005 & Paris 2006*); Workshop on Medical Robotics (*Singapore, 2002*); Symposium on Intelligent Transportation Systems (*Singapore, 1999*); European Prometheus Workshop on "Intelligent Copilot" organized with B. Dubuisson (*Grenoble, 1991*); Workshop "Mathematics and Robotics" organized with JP. Laumond and JP. Merlet (*Sophia-Antipolis, 1995*); Workshop "Planning and control in robotics" organized with JP. Laumond and C. Samson (*Toulouse, 1993*); Workshop "Geometric reasoning: from perception to action" (*Grenoble, 1991*); Workshop "Automatic Robot Programming" organized with T. Lozano-Perez (*MIT - Boston, 1987*).

- **Workshops and special sessions in international conferences**

- **Workshops:** Co-organization (with R. Chatila, U. Nunes, and Ph. Martinet) of 8 workshops on « Perception, Navigation and Decision in dynamic environments » (*Barcelona IEEE ICRA'05, Beijing IEEE/RSJ IROS'06, San Diego IEEE/RSJ IROS'07, Roma IEEE ICRA'07, Nice IEEE/RSJ IROS'08, Kobe IEEE ICRA'09, Saint-Louis IEEE/RSJ IROS'09, Anchorage IEEE ICRA'10*).

- **Special sessions:** "Cybercar Technologies" organized with S. Stramigioli (*IEEE/RSJ IROS'04*); "Haptic interaction I & II" (*IEEE/RSJ IROS'00 and IEEE ICRA'01*); "Intelligent Vehicles I & II" (*ICARCV'00 and ICARCV'02*); "Dynamic Simulation" organized with O. Khatib (*IEEE ICRA'98*); "Autonomous Vehicles" organized with C. Novales (*WAC'96*); "Telerobotics under time delay" organized with Toni Bejczy (*IEEE/RSJ IROS'94*); "Telerobotics" organized with P. Schenker (*IEEE/RSJ IROS'93*); "Cooperative behaviours of multiple robots" organized with H. Asama (*IEEE/RSJ IROS'93*); "Robotics in hazardous environment" (*IEEE/RSJ IROS'92*), "Robotics and Medical applications" organized with A. Rovetta (*IEEE/RSJ IROS'92*).

- **Chair of sessions in international conferences**

IEEE International Conference on Robotics and Automation ( every year since 1991); IEEE/RSJ International Conference on Intelligent Robots and Systems ( every year since 1990); International Conference on Intelligent Transportation Systems (1999, 2002); Intelligent Vehicle conference (2002); Workshop on Virtual Prototyping (1999); EU-USA Workshop on Motion Planning (2000); IFAC Intelligent Autonomous Vehicle (2001); Japan-France Congress on Mechatronics (1994); Conférence sur la Robotique de 3ème génération (1985); ICAR (1985); Nato Workshop on CAD-Based Programming for Sensory Robots (1988); Convention IA-89 (1989); NASA Conference on Space Telerobotics (1989).

## Scientific reviews & juries

- **Review of scientific projects**

- **Abroad:** ERCIM, Natural Sciences and Engineering Research Council of Canada, National Science and Technology Board of Singapore, Nanyang Technological University, Stanford University, Belgian National Fund for Scientific Research.

- **In France (governmental agencies) :** ANR, PREDIT, ROBEA, RNTL, French Ministry of Foreign Affairs, ANRT, PRC-IA, CEMAGREF, RNTL, Region Midi-Pyrénées, etc.

- **Review of scientific papers**

- Regular reviewer for different international journals (International Journal of Robotics Research [IJRR], IEEE Trans. on Robotics and Automation [TRO], IEEE Trans. on Intelligent Transportation Systems [ITS Trans], Journal of Field Robotics [JFR], Journal of Intelligent Service Robotics [JISR], Journal of Advanced Robotics, etc).

- Regular reviewer for different international conferences (IEEE International Conference on Robotics and Automation [ICRA], IEEE/RSJ International Conference on Intelligent Robots and Systems [IROS], International Conference on Field and Service Robotics [FSR], International Conference on Automation,

Robotics, Control, and Vision [ICARCV], etc).

- **Reviewer & Jury for PhD thesis**

- **Abroad (4)** : KU Leuven, University of Barcelona, NTU Singapore, EPFL Switzerland.

- **In France (doctorate, DE, HDR): 7** DE/HDR (*Montpellier, Valenciennes, Grenoble, Toulouse*) ; **Around 90** doctorates (*Compiègne, Toulouse, Paris, Montpellier, Sup'Aéro, Rennes, Poitiers, Grenoble*), including **around 40** as reviewer and **4** as President of the examination jury; **15** CNAM thesis.

- **Best Paper & Thesis selection committees**

- IEEE International Conference on Robotics and Automation (*2002, 2004*); IEEE/RSJ International

- Conference on Intelligent Robots and Systems (*every year since 1997*); Chief judge at Singapore Robotic Games 2004; Selection committee for best thesis in Robotics (GDR Robotics, 2009).

## Honour & Distinctions

- **IEEE RAS Technical Committee Award** for scientific works of TC “Autonomous Ground Vehicles and Intelligent Transport Systems”, with A. Broggi et U. Nunes as co-chairs (*Orlando, 2006*).
- **Invited as "Chief Judge"** at Singapore Robotics Game 2004
- **Finalist “ Best paper award”**, ICARCV’2000 conference, Singapore, December 2000.
- **IEEE/RSJ “Nakamura award”** for “Scientific contributions in the field of Intelligent Robots and Systems”, 1997.
- **Invited Professor** at NTU Singapore (Nanyang Technological University), September 1998.
- **Selected by the Steering/Advisory Committee of IEEE/RSJ IROS** for organizing the IEEE/RSJ IROS International Conference in France in 1997 and in 2008.
- **French delegations for international scientific cooperation** : *Finland (1983), USA (1984), China (1985 et 1987), Canada (1992)*.

## Industrial activities & Valorization

- **Startups (founding member):** *ITMI (1982), Getris-Images (1985), Aleph Technologies (1989), and Aleph Med (1992)*. Participation in the start-up of *Probayes SA (2003)*.
- **Industrial responsibilities:** Member of the boards (CS) of ITMI company ( 1984-1988); Member of the boards (CA) of Aleph Technologies (1989-1990); Member of the boards (CS) of Getris Images 1999-2000.
- **Consulting:** ITMI, Aleph Technologies, GINTIC Institute (Singapore), Probayes SA.
- **Participation to technological transfers:** Bayesian filtering system for dynamic environment analysis(Probayes, 2006); Interactive simulation of 3D deformation and interactions (VisteoPhysic, XL-Studio, 2002); Dynamic simulator for real-time special effects in broadcast video (DVE, Getris Images,1998); ACT system for CAD-Robotics (Aleph Technologies, 1989); LM system for robots programming (ITMI, 1983).
- **Registered Software:** Several software made with co-authors and used in the context of industrial cooperation: Robot software used by the Getris Images in generating *special effects in professional video* in real-time with their DVE cards in 1997; *VisteoPhysic software transferred to XL-Studio* to be integrated into their products for Virtual Studio in 2003 ; *VDM software* used by Aesculap BBrown to develop a prototype system for knee arthroscopy in 2003.
- **Patents** : One patent filed with Toyota on collision risk assessment (2009); Two patents filed in 2005 on assisted car-driving system based on Bayesian filter (one of them involving Probayes SA) ; One patent filed on system for Automatic Parking of cars, finally not accepted because we had previously published

the work (*I. Paromtchik et C. Laugier, 1997*) ; One patent filed on concept of «V-Obstacle» for avoiding collisions in dynamic environments, finally not accepted because we had previously published the work (*Z. Shiller, F.Large, S. Sekhavat, C. Laugier, 2001*).

# Publications & Scientific Information Dissemination

## Papers in Journals, conferences and workshops

See the publication list on the website <http://emotion.inrialpes.fr/laugier>

## Books edition & Special issues of scientific journals

- **Books edition:** Book Springer STAR on “Probabilistic Reasoning and Decision Making in Sensory-Motor Systems” (*P. Bessiere, C. Laugier, R. Siegwart, 2008*); Book Springer STAR on “Autonomous Navigation in Dynamic Environments” (*C. Laugier, R. Chatila, 2007*); Springer Lecture notes in Computer Science on “Geometric Reasoning for Perception and Action” (*C. Laugier, 1993*).
- **Conference proceedings:** IROS 2008, FSR 2007, IROS 1997, European Prometheus workshop on "Intelligent co-pilot" 1991.
- **Special issues of scientific journal:** Special issue on “Autonomous Intelligent Vehicle: Perception and Navigation” (C.Laugier, U.Numes, M. Trivedi), IEEE Trans. on Intelligent Transportation Systems (IEEE-ITS), 2009; Special issue of the Advanced Robotics Journal on “Intelligent Robots and Systems” (C. Laugier, A. Asama), 2009; Special issue of the International Journal of Vehicle Autonomous Systems (IJVAS) on "Autonomous vehicle technologies" (D. Wang, C. Laugier), December 2007; Special issue on "Robots in Open and Dynamic Environments" (C. Laugier, R. Siegwart, A. Martinelli), Int. Journal of Robotics Research (IJRR), 2008; Special issue on “Field and Service Robotics” (C.Laugier, R.Siegwart, C.Pradalier), Int. Journal of Field and Service Robotics (FSR), 2008; Special issue of the Advanced Robotics Journal on “Intelligent Robots and Systems” (C. Laugier, R. Siegwart), 2003; Special issue of the International Journal of Robotics Research on “integration among Sensing, Planning, and Control” (C. Laugier, J. De Schutter, and A. Blake), 1995; Special issue of Journal of Artificial Intelligence on “Planning and motion control in robotics” (C. Laugier, J.P. Laumond, et C. Samson), 1993; Lecture notes in Computer Sciences on « Geometric reasoning for perception and action » (*C. Laugier, 1993*) ; Prometheus workshop on Intelligent Co-Pilot (*C. Laugier et T. Fraichard, 1991*).

## Plenary talks & Invited conference papers

- **Plenary talks:** Conference on Autonomous Mobile Systems 2009 (Keynote, AMS'09, Karlsruhe), International conference on Field and Service Robotics 2009 (keynote, FSR'09, Boston) ; International conference on Automation, Robotics, Control and Vision 2008 (Plenary panel, ICARCV'08, Hanoi); Singapore Robotics Games 2004 (Keynote, SRG'04, Singapore); IEEE Int. Conference on Intelligent Transportation Systems 2002 (keynote, ITSC'02, Singapour) ; Int. Conference on Intelligent Autonomous Vehicle 2001 (keynote, IAV'01, Japon).
- **Invited conference papers:** ISSR'2001 (Melbourne) ; ICARCV'2000 (Singapour) ; IROS'2000 (Takamatsu) ; International Conference on Information Technology (Damascus, 1999) ; ISRR'99 (Salt Lake City) ; ICARCV'96 (Singapour) ; SISRS'95 (Pisa) ; WAFR'94 (San Francisco) ; Automation'94 (Taipei) ; ISRR'85 (Paris) ; MICAD'85 (Paris).
- **Invited talks in seminar & workshops without proceedings:** Large number of invited talks in various workshops and international seminars (China, Japan, Singapore, Korea, Thailand, Mexico, Brazil, Syria, Canada, USA, etc.) and in French universities and research laboratories.

## Public debates & TV shows, Published videos

Public speech on “Robots in our modern society” (Lyon, 2002); Speech & Public debate on “The sense of touching” (Palais de la Découverte, Paris, 1998); Several TV shows on “The future of transportation systems” and on “The new robots” (M6, FR3, RAI 1, Canal Satellite, 1997-00); Videos on “Computer Animation and Robotics” (1986) and on “autonomous robots” (1998) presented in public events; Published scientific videos (IEEE-ICRA'96, IEEE-ICRA'97, IEEE-ICRA'98).



## **Publications in large public magazines**

- *"Comment faire saisir un objet par une main de robot"*, C. Laugier et J. Troccaz, Le courrier du CNRS – La recherche informatique, no. 80, Fev. 1993.
- *"Le toucher"*, C. Laugier, F. Maugière (Neurologue), JF. Bassereau (enseignant ENSAM), M. Stoltz (Sellier maroquinier), O. Gagnière (Designer), La découverte, no. 275, Fev. 2000.
- *"Les technologies ITS au Japon"*, C. Laugier et G. Dobias, TEC no.167, Sept. 2001.
- *"L'immatériel au bout des doigts"*, C. Laugier et C. Mendoza, La Recherche – Numéro spécial Robots Autonomes, Fev. 2002.