



© INRIA / Photo C. Dupont

## Jean-Pierre RICHARD

Professor at the Ecole Centrale de Lille, France  
BP 48 – 59651 Villeneuve d'Ascq Cedex,  
Phone: +33 3 20 33 54 10  
Fax: +33 3 20 33 54 18  
E-mail: [jean-pierre.richard@ec-lille.fr](mailto:jean-pierre.richard@ec-lille.fr)  
Website: <http://syner.ec-lille.fr/~richard/>

### Position, Degrees, Awards

Jean-Pierre Richard was born in Montpellier (France) in 1956. He was successively Dipl. Eng. ("Institut Industriel du Nord", French "Grande Ecole") and M.Sc. (DEA) in Electronics in 1979, Ph.D. in Automatic Control in 1981, D.Sc. in Physical Sciences in 1984 (University of Lille). After starting his research and teaching activities in 1979, he joined in 1981 the Ecole Centrale de Lille as an Assistant Professor and moved up to Professor in 1989. He is presently a Professor (with highest degree – "Classe Exceptionnelle") at the Ecole Centrale de Lille (French "Grande Ecole").

Elected as a Member of the Russian Academy of Nonlinear Sciences (1996), Senior Member IEEE (1998) and Senior Member of the SEE (2003), member of the IFAC Technical Committees *Linear Systems* (1998-present) and *Networked Systems* (2005-present), he was awarded the "Automatica best survey paper prize" for the period 2002-2005 (due to a survey paper on time delay systems), a Thomson Award: "Highly cited article" and the French "Palme Académiques" in 2005 (national decoration for academic excellence). Three other "Highly cited article" awards follow for papers from 1999 to 2004.

He served as a chairman of three international IEEE or IFAC conferences, participated in more than 30 IPC, and was awarded an IEEE SMC Outstanding Award 2005 for the organisation of the international conference CIFA2004, Tunisia. He belongs to the editorial board of the Int. J. of Systems Science (Taylor & Francis). He is a referee for control journals and conferences. He was invited as a plenary speaker in 2 international conferences (IEEE-IMACS in 1998 and IFAC in 2000) and as a lecturer in many International Schools and Institutes. He serves as an expert for the several French agencies (CNRS, Ministry of Research, National Agency for Research, and the evaluation agency AERES), as well as for several international institutions (Belgium, Israel, Mexico, USA).

### Research

Jean-Pierre Richard is heading the team SyNeR (French acronym for "Systems with Nonlinear and Retarded effects" <http://syner.free.fr/>) of the LAGIS, CNRS UMR 8146 (Laboratory of Automatic control, Information & Signal <http://lagis.ec-lille.fr/>). He is also the permanent head of the project ALIEN (Algebra for digital Identification and Estimation <http://www.inria.fr/recherche/equipes/alien.en.html>) at the INRIA Research Center in Lille (INRIA is the French National Institute for Research in Computer Science and Control). His major personal research fields concern the analysis and control of complex, linear or nonlinear systems, and in particular to the linked stabilization issues. Since 1991, he has invested in the study of time delay systems (stability, control, observation, identification and estimation) and their applications to networked control systems, remote and collaborative control, robotics for transportation, aeronautics, biology... He is invested in several research programs (see the section "Collective responsibilities").

He has successfully advised 24 PhD and 3 HDR (French D.Sc.) and published about 260 communications, including 84 papers in journals or collective volumes. He was the guest editor of 5 special issues devoted to Time Delay Systems. He also co-wrote a monograph on stability domains for nonlinear systems (CRC press) and 9 other monographs in French (Edts.: Technip, Hermes-Lavoisier, ATAN), aimed at mathematics and control students.

A list of personal publications can be found at [http://syner.ec-lille.fr/~richard/Mes\\_sites\\_Web\\_English/types\\_publicis.htm](http://syner.ec-lille.fr/~richard/Mes_sites_Web_English/types_publicis.htm). A list of the team's publications can be found at <http://syner.free.fr/>. The page <http://hal.inria.fr/aut/Jean-Pierre+Richard/> gives an on-line access to the most recent ones. The ones of the team SyNeR : <http://syner.free.fr/>, and for ALIEN: <http://hal.inria.fr/lab/alien/>.

H-index = 19 / 10, max citations = 568 / 370 (sources: *google scholar/Thomson ISIweb*, 13 Dec. 2009) Erdős nb.= 4

### Collective Responsibilities

Since 1996, Prof. Richard is the General Chairman of the GRAISyHM, <http://www.univ-valenciennes.fr/graisyhm/>, French acronym for Research Federation in Integrated Automation and Man-Machine Systems, grouping about 260 researchers from 11 Institutes of North France. This research federation is sponsored by the Region Council "Nord-Pas de Calais" since November 1996, by the French Ministry of Research since January 2006 and by the Ministry of Foreign Affairs for 2007-2010.

From 1999 to 2001, Jean-Pierre Richard is in charge of a network devoted to "Time-delay systems" supported by the French CNRS. From 2001 to 2003, he is heading a national program entitled "Automatic Control and Communication Networks", co-sponsored by the French Ministry of Research and the CNRS. From 2002 to 2004, he takes part to a NSF-CNRS program "Delay Systems" (2002-2004). From 2003 to 2005, he co-chairs a Multidisciplinary CNRS Thematic Network devoted to "Control Systems and Communication Networks". From 2000 to 2008, he is the general manager of a research grant on Automation, Optimization and Man-Machine Systems for Transport, sponsored by the European Community, the French Government and the Region Nord - Pas de Calais. He is a member of the Scientific Committee of the research group ARC (control and communication networks) of the MACS group, CNRS, since 2009.

Since 2007, he serves as a member of the Projects Bureau of the INRIA Centre in Lille. He participates to several Scientific Committees (ENSEA Cergy until 2009, EC Lille) and Recruiting Committees (EC Lille, Univ. of Valenciennes, Univ.Nantes-EC Nantes). He belongs (2001-2005, 2009-) to the Scientific Committee of the National Research Network "MACS" (CNRS, Modelling, Analysis and Control of dynamical Systems <http://www.univ-valenciennes.fr/GDR-MACS/>). From 2005 to 2009, he belongs to Expert Committee "Control systems" of the CNRS. He was a member of more than 75 PhD and DSc. committees (France, Morocco, Mexico, Sweden, Tunisia).

Concerning teaching responsibilities, from 2000 to 2003 he is the Director of the Doctoral Researches Training in Automatic Control, University of Lille and Ecole Centrale de Lille. Now, since 2003, he is the Director of the Professional Training « Research » of Ecole Centrale de Lille (training for last-year students of EC Lille who are preparing a research career). He was an invited Professor at the Hassan II University of Casablanca (Morocco), the Tulane University in New Orleans (USA), the Ecole Nationale d'Ingénieurs de Tunis (Tunisia).