H – Personální zabezpečení – přednášející / Teaching Staff – Scientific Advisor

Název VŠ / součásti / Name of university / faculty	1-Paul Sabatier University Toulouse 2-Laboratory for Analysis and Architecture of Systems (LAAS CNRS), Toulouse				Atelier Interuniversitare de Productique-PRIMECA		
Název SP / Name of study program	Electrical Engineering and Informatics / Engineering of Interactive Systems						
Jméno a příjmení / Lecturer (First name and last name	**Michel Courdesses**				**Tituly / Titles**	Prof. Dr.S.	
Rok narození / Year of birth	1949	**typ vzt. / Type of employment**	Full time	**Rozsah / Range of employment**	100%	**do kdy / employed till**	2013

Přednášky v předmětech / Lectures in subjects

Automatic control, Identification, Optimal control

Údaje o oboru vzdělání na VŠ a o praxi od absolvování VŠ, vč. studia v doktorském SP / Education, titles received and previous employment

Education and earned degrees:

1974 French equivalent to a Master's Degree

1975 Postgraduate Degree, granted 5 years after the baccalaureate

1977 Doctorate de 3ème Cycle, (Automatics). Thesis in "Optimal pointwise control of distributed parameter systems with quadratic criteria"

1982 Doctorate d'Etat ès Sciences Physiques (doctorate in Automatics). Thesis in " On identifiability of parameters in a class of parabolic distributed systems "

Career history:

1976-77 Associated Assistant University Paul Sabatier (Toulouse III) (Automatics).

1977-83 Assistant University Paul Sabatier (Toulouse III) Automatics).

1983-85 Maître-assistant University Paul Sabatier (Toulouse III)

1986-88 Lecturer University Paul Sabatier (Toulouse III)

1988-95 Professor (2nd class)

Since 1995 Professor (1st class).

2006 Doctor Honoris Causa by Technical University of Liberec, Czech Republic.

Academic Positions:

Member of the Scientific council of the UFR PCA P Sabatier university.

Responsible of the Professional Master in Artificial intelligence, Form Recognition and Robotics.

Manager of the AIP-PRIMECA centre (Atelier Interuniversitaire de Productique - Pôle de Ressources Informatiques pour la Mécanique), since 5-12-1990.

Director of the National committee A.I.P. 1993.

Assistant director of the National committee AIP-PRIMECA, from 2001 to 2005.

Researches made in the team "Robotic and Artificial intelligence" since 1989.

Subject: visual servoing for mobile robots, optimal control

International activities:

French person in charge of a COMETT program on the "Diffusion of the technologies implemented in CIM environments" (1992-1994)

Person in charge for the P. Sabatier University of a peak ERASMUS with the Mondragon Polytechnic School, Spain (1992-1995)

In charge of the relations with the University of Liberec in Czech Republic for the Automatic-Computer-integrated manufacturing field since 1992.

External referee of the committee for Technical Sciences (Czech Science Foundation)

External referee for the Regional Council of Languedoc Roussillon

External referee for the promotion of three Czech professors.

Přehled o publikační a další tvůrčí činnosti / A short list of the most relevant publications and R&D achievements

[1] M. Courdesses, M. Polis, M. Amouroux: On identifiability of parameters in a class of parabolic distributed systems. *IEEE Transactions on Automatic Control*, Vol. 26, N.2, pp 474-477, April 1981.

[2] M. Courdesses: Identifiability of spatially varying and constant parameters in distributed systems of parabolic type. *SIAM Journal on Control and Optimization*, Vol. 21, N.3, pp 410-412, Mai 1983.

[3] M. Courdesses, M. Amouroux, A. El Jai: Comparison of two optimal feedback controls for parabolic systems. *Optimal Control. Applications and Methods*, Vol. 5, pp 137-148, Mai 1984.

[4] Identifiability and identification of a class of parabolic distributed systems under approximation . *International Journal Systems Science* . N.87159, 1988.

[5] M. Courdesses,V. Cadenat, P. Soueres: Using system redundancy to perform a sensor based navigation task in a cluttered environment. *International Journal of Robotics and Automation*, vol. 16, pp 61-73, issue 2, 2001, Acta Press.

[6] M. Courdesses, A. El Badia: Identification of spatially varying parameters in distributed parameter systems. *IMACS Transactions on Scientific Computation*. Vol. 4, Complex and Distributed Systems : Analysis, Simulation and Control, Ed. S.G. Tzafestas and P. Borne, pp 263- 267.

[7] M. Courdesses, A Lahouaoula: Approximation methods and identifiability in linear parabolic distributed parameter systems. *Applied Modelling and Simulation of Technological Systems*, Ed. S.G. Tzafestas and P. Borne, pp 81-90.

Selected conferences:

-Optimal sensors and controllers allocation in output feedback control for a class of Distributed Parameter Systems. Congress MECO, Athens (Greece), June 1978.

-Identification de la concentration en lacunes dans un modèle de diffusion assistée par implantation. 3rd Symposium IFAC sur la Commande des systèmes à paramètres répartis, Toulouse, 29 Juin- 2 Juillet 1982. (M. Courdesses , J. Mourault, M. Amouroux, A. Martinez).

-Identifiability and identification in distributed systems. 3rd Symposium IFAC sur la commande des systèmes à paramètres répartis, Toulouse, 29 Juin- 2 Juillet 1982. (M. Courdesses , M. Amouroux).

-Identification of spatially varying parameters in distributed parameter systems. 11th IMACS World Congress on Simulation and Scientific Computation, Oslo (Norway), pp 27-29, 5-9 August 1985 . (M. Courdesses , A El Badia).

- Identifiability and identification of parabolic systems. IMACS, Paris, July 1988. (M. Courdesses , A. Lahouaoula).

-Robust path-following control with exponential stability for mobile robots. IEEE International Conference on Robotics and Automation (ICRA'98), 16-21 Mai 1998, Louvain (Belgium) (M. Courdesses, L. Aguilar, P. Soueres Et S. Fleury)

- An hybrid control for avoiding obstacles during a vision-based tracking task European Control Conference (ECC'99) Karlsruhe, Germany, September 99 (M. Courdesses , V. Cadenat, P. Soueres)

-Using redundancy to perform a vision-based task amidst obstacles. 6th International IFAC Symposium on Robot Control (SYROCO'2000),Vienna, Austria, 21 au 23 September 2000, (M. Courdesses , V. Cadenat, P. Soueres)

-Two multi-sensor-based control strategies for driving a robot amidst obstacles, 39th IEEE Conference on Decision and Control (CDC'2000), Sydney, Australia, December 2000, (M. Courdesses , V. Cadenat, P. Soueres).

Působení v zahraničí / Stays abroad	December 1978 Control Theory Center, Warwick –England, From 26 august to 17 September 1980, École Polytechnique de Montréal - Canada From 31 March to 10 April 1986 Rabat University , Morocco April 1991, Japan Many stays in Mondragon (Spain) from 1992 to 1995 Many stays in Liberec since 1992.

Obor habilitačního nebo jmenovacího řízení nebo udělení vědecké hodnosti / Habilitation and PhD degree – Branch	Automatics (prof.) Automatics (Doctorat d´Etat)	**ohlasy publikací / number of SCI citations**	
Habilitation and PhD degree - year and institution	1988 Professor 2nd class, 1982 Dr.S. 1995 Professor 1st class	**mezinár. / international**	**tuzem. / national**
Podpis přednášejícího / Lecturer signature			
		Datum / date	26 January 2008