

RACHID Ahmed

3, rue Paul Cézanne. 80080 Amiens. France

e-mail : rachid.greenway@gmail.com

GSM : +33 (0)6 33 31 74 64

**Up-to-date position**

Professor at the University of Picardie Jules Verne (UPJV,
Amiens, France)

Education:

Institution	Degree	Year
University of Nancy I, France	Habilitation for Research Supervision	1990
University of Nancy I, France	PhD in Control Engineering	1986
University of Nancy II - IAE, France	Master of Business and Administration	1985
University of Nancy I, France	Master of Science	1983
Engineering School of Science and Technology of Nancy, France	Engineer in Cybernetics	1983

Professional Experience :

Institution	Position	Date
University of Picardie Jules Verne	Professor	1992-
Ecole Centrale of Lyon	Assistant-Professor	1990-92
University of Nancy I	Assistant-Professor	1988-90
University of Nancy I	Assistant- Professor	1985-87
CECIL Compagny	Engineer	1984-85
Pont A Mousson S.A.	Engineer	1983-84

Distinction :

- Best collaboration university-entreprise (VERNE/ADER)
- IEEE Senior Member
- Chevalier des Palmes Académiques
- Professor Exceptionnel Class.

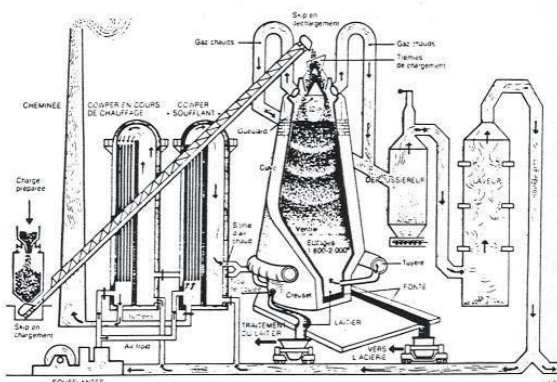





Teaching:





Control Engineering, Robotics, Signal Processing, Industrial Computing

Research:

- More than 10 collective books ;
- 2 patents;
- over 120 international scientific papers;
- Supervisions of 22 PhD's and over 80 masters projects ;
- Director of The Control Engineering Laboratory of Amiens from 1992 to 1999;
- Responsible of the Master Degree « Control Engineering » from 1994 to 1998;
- Co-coordinator of a regional research programme « Diagnostic and Advanced Vehicles » and head of 3 projects:
 - ◇ stepper motors: it consists in implementing a closed-loop control with an appropriate power electronics.
 - ◇ Diesel engine: this project deals the identification and control of the Diesel engine in order to minimize its consumption and its pollution.
 - ◇ Mobile robots: it concerns the complete automation of an industrial electrical vehicle.
- Organization (President or co-president) of more than 15 international Conferences.
- Coordinator of a Tempus European project with Poland ;
- Head of an INTERREG European program with Brighton University (U.K.) on Diesel engines;
- Several industrial contracts with private firms.
- Co-ordinator of European projects: PACIFIC (PAntograph Catenary Interaction Framework for Intelligent Control) and ECOTEC21;
- President of Control System Society of IEEE France Section from 2009 to 2012.
- Editorial Board Member of Modelling and Simulation in Engineering. Hindawi Publishing Corporation..
- International collaborations (USA, Canada, Netherlands, Danemark, Poland, Morocco, China, Romania, Spain, Italy, U.K., Turkey, ...). ;
- Former Director of Research Lab;
- Former Vice-President of UPJV university;
- Former Director of continuing Education Department at UPJV.

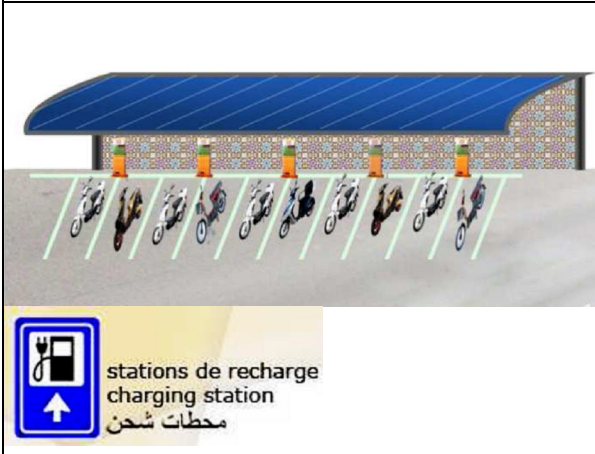
Résumé of Research applications:

	<p>Blast Furnace Modelling and Identification of a blast furnace has also been performed in the factory Pont A Mousson S.A. to control the product quality while minimizing energy consumption.</p>
	<p>Vehicle Automation Sensors and actuators. Instrumentation, CAN networking, control, diagnostics, path following.</p>
	<p>Diesel motor Test-rig. Modeling and control to minimize pollution and consumption.</p>
	<p>Induction electric drive : sliding mode control and observation of the speed.</p>
	<p>Incubator used for the simulation of heat exchange between a newborn and its environment.</p>
	<p>Greenhouse modeling and control: Pilot plant of a group of packaging concept using a "passive" simple, consisting of heat exchangers and humidifiers. Modelling and control of the system to control the climate of growth chambers.</p>

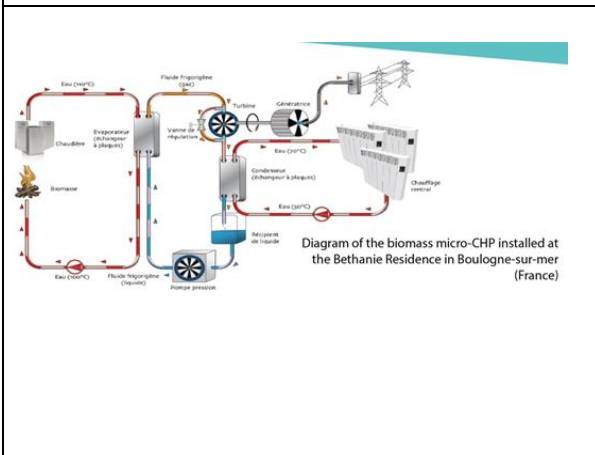
	<p><i>Advanced Control of the gaz installations at CERN (Nuclear European Research Centre)</i></p>
	<p>Magnetic levitation A pedagogical system sold by feedback I.t.d.</p>
	<p>Development of an onboard computing system to receive, centralize, process and transmit information regarding the operation of a land vehicle.</p>
	<p>Pantograph-catenary Platform A test bench of the pantograph- catenary system was performed with a reduced $\frac{1}{4}$ scale to conduct various studies and as a guide: characterization of the bands strips, thermal and mechanical physical phenomena, dynamics, active control, diagnosis and fault detection, ...</p>



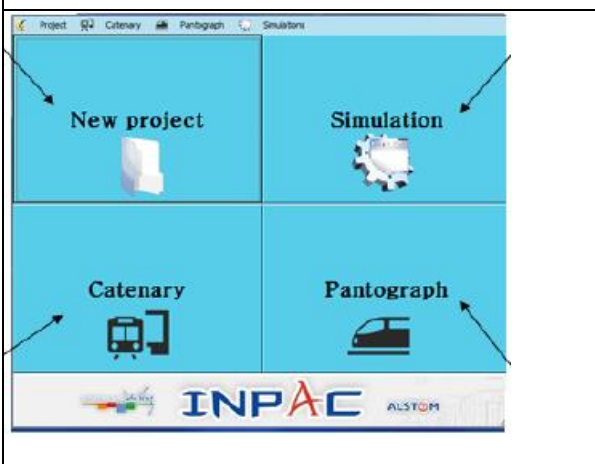
Laboratory **Electric tricycle** built to test relevant techniques for electric vehicles control, batteries monitoring, ...



VERES:
 This project started in 2015 and is funded by the Moroccan Research Institute for Solar Energy. VERES aims to build a Solar Charging Stations as well as a prototype of a Solar Electric Vehicle.



CHP: Combined Heat and Power
 This project is bringing partners together in order to find out how to facilitate the implementation of the CHP technology into existing buildings as a very energy efficient alternative to the usual centralized systems.



INPAC:
 This project is implemented within a contract with ALSTOM. It consists of simulation software to model the 3D mechanical structure of a pantograph- catenary system.



EVAN: Electric Vehicle Advanced Network

This project aims at demonstrating the technical and economic feasibilities of a new class of EVs for personal urban mobility which are small, extremely light weight and more affordable than the conventional ones, by developing a design methodology that enables tailoring EVs characteristics based on users defined specifications and by demonstrating its validity through the design and realization of 4 different prototypes.



WHO-BikeS: Smart, safe and sustainable commuting by electric bicycles in industrial harbour/coastal areas.

This project aims at enhancing the use of electric bicycles for commuting and short professional travels. Increased electric bicycle use will reduce the negative effects of car use for commuting due to poor public transport infrastructure in the 2Seas areas. The project will investigate technological and economic solutions to improve electric bicycles and the conditions for their use and will enhance public acceptance and increase Eco-innovation.