

CURRICULUM VITAE



Given Name: **Seddik**
Name: **BACHA**
Date and place of birth: 1958, Ighram – Bgayet- Béjaia Algeria
Present position: : Full Professor, University of Grenoble, France
Affiliation laboratory: Grenoble Electrical Engineering Lab (G2ELab)

UNIVERSITY DEGREE

January 1998: *Ability to conduct research* (« Habilitation à Diriger des Recherches » – HDR), Grenoble National Institute of Technology (INPG)- France
1994: *State Doctorate degree*, (Recognition) Algeria
January 1993: Ph.D. Thesis (Best Thesis Award of INPG) 1993
June 1990: **Magister** (*Equivalence of third cycle Doctorate*) degree in Electrical Engineering from the National Polytechnic School of Algiers (ENPA)
January 1982: *Engineer* (State Diploma) from ENPA

CAREER

September 2000 to date: *Full Professor,*” University of Grenoble, France
September 1993-September 2000: *Associate Professor,* “University of Grenoble, France
October 1986-October 1990: *Assistant Professor* at A. MIRA University of Bgeyet-Béjaia Algeria
September 1982-October 1986: *Training Assistant Professor* at the National Polytechnic School of Algiers, Algeria (*)
Jan. 1982-Sept. 1982: *Head of Electricity Service* of the Engineering Office of the Béjaia County, Algeria
(*) Interruption from May 1984 to May 1986 for military service as Second Lieutenant (Infantry)

TEACHING EXPERIENCE

First cycle : Mathematics, Electrical Machines, Power Electronics, Renewable energies
Master and Engineering school: Power electronics modelling and control, Renewable energies in general, Wind energy integration
Creation of 6 lectures : Supergrids, wind energy systems, power electronic modeling, converters control, power quality, renewable energy,

RESEARCH EXPERIENCE

The core of the researches is in modelling, control of energy processes and optimizing energy flows

Actual interest focused on

Micro grids, HVDC, Renewable energy integration and power quality; Wind energy, Photovoltaic, Variable speed hydro systems...; FACTS and DFACTS systems for grid energy management; V2G, Intelligent buildings; Real Time Simulation.

MAIN SCIENTIFIC MANAGEMENT

Scientific Council President of ITE (Institute of Energetic Transition) Supergrid Institute since 2018

Program Scientific Director within Superrid since 2013, the Supergrid institute is focusing its research on the future HVDC and HVAC grid architectures, the stakeholders are industrialists and academics with equal importance.

Director Deputy of the **GDR SEEDS** since Sept. 2012 Jan 2018. (CNRS Group of Research for Energy) , this Group has the mission to coordinate the French researchers on the domain of electric energy, generation and uses. The totality of French Labs on electrical engineering are contributing as members (nearly 400 researchers are listed)

Head of the Power Systems Group of G2ELab jan.2001/sept. 2012 (composed of 14 professors and associated professors, 4 engineers, 4 post-docs, 40 Ph.D. students and about 10 internships per year) This group is the most important one in the field of power systems in France.

Supervision :

- Scientific supervisor of
 - * **48 Ph.D.** (French Diploma) defended + **06** other ongoing
 - * **6 PHD** (Foreign diploma) defended + 1 ongoing
 - * 10 post-doctoral training
 - * More than 100 Master of Science (DEA and M2R) and internships
- 4 European projects within the 4th and 5th FP
- 1 Eragnet programm
- 9 national research contracts granted by the French National Research Agency and FUI (Fond Unique d’investissement and ADEME)
- More than 20 industrial contracts.

PUBLICATIONS AND PATENTS

- 2 Books (Springer) + 1 Chinese translation , 11 Patents, 23 chapters in collective books, more than 400 articles in journals, in international and national peer-reviewed conferences with proceedings, more than 40 invited conferences.

Details : <https://scholar.google.fr/citations?user=p0yzRn4AAAAAJ&hl=fr&oi=sra>

OTHER ACTIVITY

- Associate editor for IEEE Transactions on Industrial Electronics since January 2015
- Guest corresponding Editor Special Section Complex power electronics systems modeling and analysis for IEEE Transactions on Industrial Electronics -2018
- Associate editor for Wind Energy review , Hindawi , since 2014 to its closure (2015)
- Scientific committee member for IEEE ECCE Europe
- Expert evaluator for the Italian Ministry of research , projects evaluation for national programs (2 sessions from 1998)
- Expert evaluator of scientific projects for the Natural Sciences and Engineering Research Council of Canada (3 sessions since 2006)
- Expert evaluator for the ministry of research Romania one session 2012
- Foreign evaluator of teaching and research staff of Polytecnico di Torino, Italy (one session)
- Expert evaluator of the French National Research Agency (ANR) - programmes PAN-H (Fuel Cell) and “Young Researchers”...
- Member of the expert group of the program PROGELEC of the National Research Agency (ANR) 2012 and 2013
- Scientific expert for Latvian Research Engineering institutions assessment : session 2013