Curriculum Vitae

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Scientific Publications:

International papers:

1. B.CHETATE, T.KHALDI, B.BOUDJENAH, C.KARA;"Development of a C.A. D. system allowing the choice of the power of the electric motors", International Journal of the Advanced Technologies (Revue Internationale des Technologies Avancées), N° 8, pp. 39-52, ISSN 111 – 0902, 1995.

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9.N.KABACHE, **B. CHETATE** 'Adaptive Nonlinear Control of Induction Motor Using Neural Networks', IEEE proceedings/ International Conference on "Physics and Control" (PhysCon 2003), St. Petersburg, Russia, August, 2003, , **IEEE CNF 0-7803-7939-x/03/2003**, pp.259-264.

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12. B.CHETAE (B.SHETAT), Dj. KHODJA (HODGA Dg.); "Artificial neuron network usage for asynchronous motor malfunction diagnostics in real-time operation mode", Journal ELEKTROTEKHNIKA [in Russian <u>ISSN</u> 0234-7415 (ZAO ZNAK, Russia) and in English <u>ISSN 1068-3712</u> (ALLERTON PRESS, U.S.A)], n°12 (December 2003), pp.16-20, <u>Index: **71111** (IEE INSPEC CLASSIFICATION, The National Research Council of Canada, The British Library, PERIODICA,)</u>

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Authors: B.CHETATE, A. LEBAROUD, M.A. AITOUCHE, M.S. BOUMEDINE Elaboration of an automatic system for the breakdown diagnosis of the electrical machines, converters and control.	September 17, 18 and 19 1996	International Association of Modelling and Simulation of Electric Machines, Converters and Systems, Saint-Nazaire- France	Proceedings of the 5th International Conference one Modelling and Simulation of Electric Machines, Converters Systems and (ELECTRIMACS '96, Flight. 3/3, pp.1061-1065.

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Authors: B.CHETATE,	15-18 September	Departement of Mine	Proceedings of the Second International
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A.GROUNE, Some Elements of the Energizing politics in Algeria Authors: A. Khodja, B. Chetate , ANN system for identification and localisation of failures of anatomazed electric asynchronous drive	2003 March 11-13 2004	Affairs (U.A.P), Moscou (Russia) Near East University (Nicosia)	Conference. <u>ISBN: 5-209-01736-2</u> , pp.9-10 (Plenary, pp. 9-10) 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN:975-8359-32-0</u>
A.GROUNE, Some Elements of the Energizing politics in Algeria Authors: A. Khodja, B. Chetate , ANN system for identification and localisation of failures of anatomazed electric asynchronous drive Authors: H.Labar, K.Bounaya,	2003 March 11-13 2004 March 11-13	Affairs (U.A.P), Moscou (Russia) Near East University	Conference. <u>ISBN: 5-209-01736-2</u> , pp.9-10 (Plenary, pp. 9-10) 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117
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A.GROUNE, Some Elements of the Energizing politics in Algeria Authors: A. Khodja, B. Chetate , ANN system for identification and localisation of failures of anatomazed electric asynchronous drive Authors: H.Labar, K.Bounaya, B.Chetate , T.Mesbah Control of Over-Voltage due to capacitors banks at customers systems Authors: A. Kheldoun, B. Chetate , Model Based Minimization of Power Loss in Vector Control Induction Machine Authors: B.CHETATE, A. Kheldoun, Dj.Khodja, N.Kabache, Energy saving by using artificial intelligence for specification, control	2003 March 11-13 2004 March 11-13 2004 March 11-13 2004 May 27-29	Affairs (U.A.P), Moscou (Russia) Near East University (Nicosia) Near East University (Nicosia) Near East University (Nicosia)	Conference. <u>ISBN: 5-209-01736-2</u> , pp.9-10 (Plenary, pp. 9-10) 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> International Conference on computational intelligence,
A.GROUNE, Some Elements of the Energizing politics in Algeria Authors: A. Khodja, B. Chetate , ANN system for identification and localisation of failures of anatomazed electric asynchronous drive Authors: H.Labar, K.Bounaya, B.Chetate , T.Mesbah Control of Over-Voltage due to capacitors banks at customers systems Authors: A. Kheldoun, B. Chetate , Model Based Minimization of Power Loss in Vector Control Induction Machine Authors: B.CHETATE, A. Kheldoun, Dj.Khodja, N.Kabache, Energy saving by using artificial intelligence for specification, control and diagnosis of electric drives with	2003 March 11-13 2004 March 11-13 2004 March 11-13 2004 May 27-29	Affairs (U.A.P), Moscou (Russia) Near East University (Nicosia) Near East University (Nicosia) Near East University (Nicosia)	Conference. <u>ISBN: 5-209-01736-2</u> , pp.9-10 (Plenary, pp. 9-10) 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> International Conference on computational intelligence, pp.44-49
A.GROUNE, Some Elements of the Energizing politics in Algeria Authors: A. Khodja, B. Chetate , ANN system for identification and localisation of failures of anatomazed electric asynchronous drive Authors: H.Labar, K.Bounaya, B.Chetate , T.Mesbah Control of Over-Voltage due to capacitors banks at customers systems Authors: A. Kheldoun, B. Chetate , Model Based Minimization of Power Loss in Vector Control Induction Machine Authors: B.CHETATE, A. Kheldoun, Dj.Khodja, N.Kabache, Energy saving by using artificial intelligence for specification, control	2003 March 11-13 2004 March 11-13 2004 March 11-13 2004 May 27-29	Affairs (U.A.P), Moscou (Russia) Near East University (Nicosia) Near East University (Nicosia) Near East University (Nicosia)	Conference. <u>ISBN: 5-209-01736-2</u> , pp.9-10 (Plenary, pp. 9-10) 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> 2 nd international symposium on electrical, electronic and computer engineering, pp.112-117 <u>ISBN: 975-8359-32-0</u> International Conference on computational intelligence, pp.44-49

Authors: H.Labar, K.Bounaya, B.Chetate, T.Kelaia Power factor correction and magnification of the transient over voltage	5-7,Jully 2004	Lyon (France)	MS'2004
Authors: B. CHETATE, N. KABACHE, A. KHELDOUN, R. BRADAI, A.V. CHERMALIKH, I.Ia. MAIDANSKY, M. OMRANI « New Energetic Performances of Electrical Drives By Using Artificial Intelligence »	15-18, June 2005	Yildiz University, Istanbul (Turkey)	INISTA 2005, International Symposium on Innovation in Intelligent Systems and Applications, pp. 33-37. <u>ISBN: 975-461-400-8</u>
Authors: B.CHETATE, M.T.BELASSEL, T.BENSLIMANE, DJ.KHODJA, M.OMRANI «Reliability Improvement of Induction Motor Electric Drives»	15-18, June 2005	Yildiz University, Istanbul (Turkey)	INISTA 2005, International Symposium on Innovation in Intelligent Systems and Applications, pp. 44-48. <i>ISBN: 975-461-400-8</i>
Authors: Dj. KHODJA, B. CHETATE, « Development of Neural Networks module for fault identification in asynchronous machine using various types of reference signals»	August, 24-26, 2005	St Petersburg, Russia.	Physcon'2005, 2 nd International Conference PHYSICS and CONTROL, PP 537-542.; <u>IEEE Xplore</u>
Authors:N.KABACHE, B.CHETATE, «Neural Network Estimator for Induction Motor Rotor Resistance»	2005	Cambridge, USA.	IASTED International Conference on Intelligent systems and Control.
Authors: T.BENSLIMANE, B.CHETATE; « Digital Calculation of Frequency of Periodical Signal (Sinusoidal and Triangular) »	October 21-22, 2005	TOMSK, RUSSIA	The Sixth IEEE International Siberian Conference on Control and Communications SIBCON-2005.

National Conference Papers

Entitled	Date and place of presentation	Promoter of the meeting	References of the journals or proceedings		
Authors: B.CHETATE Numerical simulation of the uncertain state asynchronous motors' operation and elaboration of a computer aided design C.A.D system allowing the choice of the optimal working states of these motors,	07-08 November 1995	University of Guelma (Algeria)	Proceedings of Conference on Modelling and Simulation in Electrical Systems (CMSES'95), pp.137-143		
Authors: M.S.HADDAG, B.CHETATE, Development of a process and a numeric device of couple indirect measurement	07-08 November, 1995	University of Guelma (Algeria)	Proceedings of Conference on Modelling and Simulation in Electrical Systems (CMSES'95), , pp.342-349		
Authors: B.CHETATE, A.LEBAROUD, Contribution study of a breakdown diagnosis automated system by state numerical simulation of the for lack of an asynchronous motor.	07-08 November, 1995	University of Guelma (Algeria)	Proceedings of Conference on Modelling and Simulation in Electrical Systems (CMSES'95), , pp.342-349		

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Authors: B.CHETATE Elaboration of an expert system allowingthe rational choice of asynchronous motors.	07-08 November, 1995	University of Guelma (Algeria)	Proceedings of Conference on Modelling and Simulation in Electrical Systems (CMSES'95), pp. Pp.163-169
Authors: B.CHETATE, C. KARA, Elaboration of the explanation and justification module of the reasoning decision help system IES/CEM by numerical simulation of the chosen motor working states	23-24 may , 1995	I.N.H.C, Boumerdès (Algeria)	Acts of the First Scientific and Technical Days of the I.N.H.C (JST'95), pp. 267-273.
Authors: B.CHETATE Optimization of the electromechanical system structures and parameters - energy saving factors.	25-26 November, 1996	Algerian committee of the energy, Algiers (Algeria)	Proceedings of the 1st Symposium of the Algerian energy Committee: The energy Sector in Algeria facing the Challenges of the 21st Century, 4th N°4.6 session
Authors: B.CHETATE, B.LEBAROUD About real-time intelligent failure diagnosis of electromechanical systems	29-30 April 1997	University of Guelma Hammam Debagh - Guelma (Algeria)	Proceedings of the third Maghreb Days on Mechanics, (Algeria), Volume I, pp.404-409
Authors: A. LEBAROUD, B.CHETATE, Numerical simulation study of voltage ac inverter feeding an asynchronous motor behaviour with different PWM strategies	05 -06 May 1997	I.N.H.C Boumerdès, (Algeria)	Acts of the 2 nd Scientific and Technical Days of the I.N.H (JST'97), pp. 381 - 384.
Authors: M. S. HADDAG, B.CHETATE, Architecture development of an indirect numerical torque measurement system and its operation by numerical simulation	05 - 06 May 1997	I.N.H.C Boumerdès, (Algeria)	Acts of the 2 nd Scientific and Technical Days of the I.N.H (JST'97), pp. 381 - 384.
Authors: B.CHETATE, N. KABACHE, Vector control of an asynchronous motor by application of the artificial neurone networks	May 2000	Faculty of Hydrocarbons and Chemistry, University of Boumerdès, (Algeria)	Proceedings of International symposium on Hydrocarbons and Chemistry
Authors: B.CHETATE, Dj. KHODJA, Automatic diagnosis system of electromechanical system failures by application of artificial neurone networks	May 2000	Faculty of Hydrocarbons and Chemistry, University of Boumerdès, (Algeria)	Proceedings of International symposium on Hydrocarbons and Chemistry
Authors: M.S.HADDAG, B.CHETATE, Study of a disturbance observer and its application for the digital indirect measurement system of DC motor torque	October 23-24, 2000	Algerian oil Institute (IAP), Boumerdès (Algeria),	Proceedings of first Instrumentation and Measurement in petroleum applications Conference, IMPAC-2000, <u>ISSN:</u> <u>1112–3001</u> , PP.208-214
Authors: B.CHETATE Methods and means of rationalization of the electric energy use in the industrial enterprises	14-15 November, 2000	El-Aurassi (Algiers), (Algeria)	Proceedings of the 2nd Symposium of the Algerian energy Committee: Energy use rationalization of the of the (Economy of energy and Environment)

Professional Activities

Function	Period of activity	Enterprises or Organisms	References of the nomination texts
Director	Since September 2000	Research Laboratory on the electrification of the Industrial Enterprises / University of Boumerdès, Algeria.	Ministerial decree / MESRS
Expert Consultant	2001	Expert consultant of the National agency of Development of the Academic Research (ANDRU)	Contract / ANDRU
Expert consultant	April – May 1999	Energizing pre-audit of the Cement factory of Ech-Chlef (April - May 1999)	Contract / National Agency for the Rationalization of the energy use
Expert consultant	May – Sept. 1998	Diagnosis of the electric and automatic facilities of the Cement factory of Meftah, Algeria	Contract/ ERCC
Expert consultant	May – June 1996	Diagnosis of the twelve Cement Algerian factories for the account of the Ministry of the industry and the restructuring, National Enterprise of Research and of Development of the Construction Materials (ENDMC)	Contract/ ENDMC
Department Head	1997	Department of Electrical Engineering	General Director decision, National Institute of Hydrocarbons
Head of Option	1993-1994	Option of electro mechanics	General Director decision, National Institute of Hydrocarbons
Chief of the Research team	From Sept. 2000 To present	Savings of the Electric energy (Mastery of the energy) / Laboratory of Research on the electrification of the Industrial Enterprises	University of Boumerdès, Algeria
Associate Researcher	1994	Development of the Specifications of an Expert System of Industrial Maintenance for the account of the Cement factory of Meftah, Algeria	Contract / Centre of Development of the Advanced Technologies (CDTA), Algeria

Defended Works

1. InUndergraduate						
Туре	Entitled	Name and rank of	Date of	Mention		
		Research	Defence			
		Director				
State	Renovation of the electric supply system of the	Associate	June	Congratulations		
Engineer	natural liquefied gas factory (GL1/K),Skikda,	Professor (Russia)	1984			
	Algeria and studies of the industrial applications					
	of the solar facilities					

2. In Graduate

Туре	Entitled	Name and rank of	Date of	Mention
		Research Director	Defence	
PhD	Development of methods and algorithms allowing	Leonid	08/12/1998	Excellent
in	the rational choice of the electric drive motors	Alekseevitch		
Technical		ILIACHENKO,		
Sciences		Docent		

Graduate Courses Attended

- Theory of Electrical drives, Moscow Power Engineering Institute, 1985-1986;
- Control and regulation of electric drives, Moscow Power Engineering Institute, 1985-1986;
- Systems of computer aided design, Moscow Power Engineering Institute, 1985-1986;
- Theory of automatic control, Moscow Power Engineering Institute, 1985-1986;

Summary of Qualifications:

•	July 2004 – Present :	Professor Doctor
•	Dec. 1998 – July 2004:	Associate Prof. Dr.
•	Sept. 1994 -Dec. 1998:	Assistant Prof. Dr. Lecturer.
•	Nov. 1990 - Sept. 1994:	Assistant Prof. Dr.
•	Jan. 1985- an. 1990	R & D Engineer
•	Jan.1987-Feb.1990	Ph.D. Candidate

Administrative Positions

- July 2000 Present:
- 1994–1995:
- 1994-1998
- 1997-1998:

Director of L.R.E.I.E. Research Laboratory. Head of Electromechanical Option. Head Post Graduate Program

Head of Electrical Engineering Department.

Undergraduate and	Graduate	Courses	Taught
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Academ	Institutes and	Faculty or	Courses Taught	Lecture	Laboratory	Recitation
ic Year	Universities	Institute				
1990-	INHC,	-	1.Control and Electric Drives (UG)	*	*	*
2005	Boumerdès	-				
			2. Industrial Electric Equipments	*	*	*
	INMC,		(UG)			
	Boumerdès	Faculty of		*	*	*
		Hydrocarbons	3. Theory of Electric Drives (UG)			
	University of	and Chemistry		*	*	
	Boumerdès		4. Data processing applied to the			
			industry (UG)			
				*		
			5. Energy Savings (G)			

E) Supervised Theses 1. In Graduate Studies

A. Scientific Defence of State Doctorate Thesis:

LABAR Hocine, "Determination and control of the impact of the manoeuvres of the compensation batteries on the over voltages and the transient over currents", July 2004, University Badji Mokhtar - Annaba, Algeria.

BELASSEL Mohand Tahar," Étude des processus ondulatoires et des surtensions dans les moteurs asynchrones alimentés par des convertisseurs à semi-conducteurs», May 2006,. University of Tizi Ouzou - Algeria.

B. Defences of Master degree Theses:

1. LEBAROUD Abdessalem, automatic diagnosis of asynchronous motor, June1997, National Institute of Hydrocarbons and Chemistry, Boumerdès, Algeria.

2. HADDAG, Indirect Measurement of the load couple of an electric motor by an observer. Application to the direct current motors with separated excitation and to elastic mechanical link", Sept. 2000, Laboratory of Research on the Electrification of the Industrial Enterprises, University of Boumerdès, Algeria.

3. KABACHE; "Adaptive non-linear control of an asynchronous machine using two "artificial neuron networks, April 2001, Laboratory of Research on the Electrification of the Industrial Enterprises University of Boumerdès, Algeria.

4. KHELDOUN; "Vector Control of a cage asynchronous with total losses minimisation and logic fuzzy adaptation rotor resistance", Research Laboratory on Electrification of Industrial Enterprises, Boumerdès University, June 2001.

5. KHODJA; "Development of the diagnosis automatic system of the induction machine failings using artificial neuron networks", June 2001, Laboratory of Research on the Electrification of the Industrial Enterprises University of Boumerdès, Algeria.

6. Louanchi Malika, "Optimisation des régimes de fonctionnement d'un moteur asynchrone à cage entrainant une charge variable", 2007, University of Tizi Ouzou, Algeria.

2. In Undergraduation

Defences of Final Year Projects (since 1997):

1. KACI; "STUDY and optimization of the practice and the electric control of a regulation valve (thermal power station of Jijel)" Algeria, I.N.H.C. ,1997.

2. SAKHRI; «Analysis and diagnosis of the maintenance function in order to optimize the availability of the facilities within a complex of detergents ", I.N.M.C., 1997.

3. AYADI, Contribution to the development of a maintenance management system of computer aided of the electric motors of the DP/R.E.B ", I.N.H.C., 1997.

4. BOULANOUAR, Development of the elements of a system of automatic diagnosis of synchronous machine failings", I.N.M.C., 1997.

5. IDIR, "Application of artificial intelligence techniques for the optimization of the technological process of mill ", I.N.I.M., 1997.

6. SOUILAH, "Control by an industrial programmable automaton of the chain to cups (ZEIDLER) of the E.C.V.E - Guelma ", I.N.M.C., 1997.

7. GATTAL, MAMERI, "Elaboration of a system of C.A.D allowing the rational choice of the electric converters-motor system and controls", I.N.H.C., 1997.

8. BELARFAOUI, BOUCHOU,; "Methods and means of the electric energy savings in a cement factory, case of application,: the cement factory of Rais-Hamidou ", University of Boumerdès, I.H.C, 1998.

9. TEMIMI; "Automation by A.P.I TSX 67.40 of the group cut-out / rectifier of the unit of KREBS electro coloration of the complex GL1/K (Skikda) ", University of Boumerdès, I.H.C, 1998.

10. YOUSFI, BOUCHAKOR,; "Automatic control of the parameters of an asynchronous motor by the technique of the artificial neurons networks", University of Boumerdès, I.M.C, 1998.

11. AMELLAL, BELDJOUDI,; "Study and choice of the facilities allowing the electrification of a solar village of the south of Algeria", University of Boumerdès, I.H.C, 1998.

12. RAHALI; "Automation of the production line of the pitchforks of the complex GERMAN of the fork-lifters of Ain-Smara (Constantine) ", University of Boumerdès, I.H.C, 1998.

13. OULD-SDIVE; "Application of the artificial neurons networks for the diagnosis of an asynchronous machine failings", University of Boumerdès, I.M.C, 1998.

14. M.KHADER; "Methods and Means of rationalization of use of the electric energy to the cement factory of Meftah", University of Boumerdès, I.H.C, 1999.

15. F.REBIAI, A.GUENDOUZ,; "Methods and means of electric energy savings in a factory of ceramics, case of application,: the "Amirouche briquetterie, University of Boumerdès, I.H.C, 1999.

16. A.O. BOUREKOUA, A.AMAR,; "Development of the automatic system of diagnosis of the asynchronous machines failings by application of the technique of the artificial neurons networks", University of Boumerdès, I.H.C, 1999.

17. S.A.ZAGOUG; "Development of the automatic system control of the asynchronous machine by application of the artificial neurons networks ", University of Boumerdès, I.H.C, 1999.

SCIENTIFIC INTERESTS:

- Energy saving & economic policy
- Electrical drives
- Artificial Intelligence
- Automatic Diagnosis
- New and renewable Energies

Scientific research projects

Project Titled	Position	Date of	Number of years
		Agreement	allocated
Energy Savings	Project Chief	01/01/1993	02
Expert system of industrial maintenance for the facilities of the Cement factory of Meftah	Project Chief	1994	01
Expert system of industrial maintenance	Project Chief	01/01/1995	02
System of help to the decision permitting the rational conception and the exploitation of the industrial facilities	Project Chief	01/01/1997	02
Development of a Complete Intelligent System Permitting the Rationalization of the use of the Electric energy in the Industrial Enterprises	Project Chief	01/01/2001	02
Development of a Complete Intelligent System Permitting the Rationalization of the use of the Electric energy in the Industrial Enterprises; case of application: cement industry, oil industry, textile industry	Project Chief	01/01/1998 National Research Project (PNR1)	03
Methods and means of the energizing efficiency	Project Chief	01/01/2004	02
Energy saving by using artificial intelligence for control land diagnosis of induction motor	Project Chief	01 /01/2005	03
Design optimization and exploitation of Algerian made motors (Enterprise ElectroIndustries)	Project Chief	01/01/2006	03

Scientific membership

Position	Domain	Years	Observations
Executive Managing	International Journal of	Since 2006	Medwellonline
Editor	Electrical and Power		
	Engineering (IJEPE) –		
Member of the Scientific	Journal of Communication,	Since 2005	ENSET
Committee	Science and Technology		
Member of the Scientific	The International	June 2007	Yildiz Technical University, Istanbul,
Committee	Symposium on INnovations		Turkey
	in Intelligent SysTems and		
	Applications INISTA'2007		
Member of the Editorial	The Journal of Engineering	Since 2006	Medwellonline
Board	and Applied Sciences		
Member of the Editorial	The Asian Journal of	Since 2006	Medwellonline
Board	Information Technology		
Member of National	National Pedagogic Council	Since February	Ministry of High education and
Pedagogic Council of		2005	Scientific Research of Algeria
Electrotechnic Member of Scientific	Scientific Council	1993-present	National Institute (Faculty) of
wiender of Scientific	Scientific Council	1995-present	Tranonal Institute (Faculty) of

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Council			Hydrocarbons and Chimistry
Member of the Scientific	Second International Symposium	Nicosia (Cyprus),	Near East University
Committee	on Electrical, Electronic and	11-13 March	
	Computer Engineering	2004	
President of the Conference	International conference on the	Algiers	- University of Boumerdès (Algeria)
r resident of the conference	Energising efficiency	(Algeria)	- Moscow Power Engineering
	(ICEE'2003)	25 - 26 May	Institute, (Russia).
	(ICEE 2003)	2003	institute, (Russiu).
Member of the Scientific	International Journal of the	2000-2002	Scientific sponsorship: World Solar
Committee	Extendable Energies		UNESCO-Program
	ISSN 1112 - 2242		6
Member of the Committee	Algerian - French group on the	2002	Ministry of the energy and Mines –
	Mastery of the energy		APRUE
Member of the Scientific	Journal of Communication,	Since November	ENSET –Oran (Algeria)
Committee	Science and Technology	2005	
	ISSN 1112 - 5187		
Temporary member of the	Periodical of AMSE International	2000-2003	France
Committee			
President of the Scientific	Seminary on the automation and	Boumerdès	University of Boumerdès
Committee	the electrification of the Industrial	(Algeria) 1999	
	Process	Boumerdès	
Member of the Scientific Committee	International symposium on the		University of Boumerdès
Committee	Hydrocarbons	(Algeria) 2000	
Member of the Scientific	Conference on the Techniques of	Guelma	University of Guelma
Committee	the High Voltage (CNHT'99)	(Algeria)	University of Odennia
Member of the Scientific	International conference on	Oran (Algeria)	University of Sciences and
Committee	Power Engineering	1998	Technology (USTO), Oran, Algeria
Member of the Scientific	International conference of the	Batna	University of Batna
Committee	university of Batna	(Algeria)	children of Duniu
Committee	(IEE'97)	Dec. 1997	
Member of the Scientific	Days of study on the solar	Batna	Ministry of the energy and Mines
Committee		(Algeria)	winnsu'y of the chergy and willes
Commutee	energy		
		May 1997	
Member of the Scientific	Days of study on the New and	ENA/Algiers	Ministry of the energy and Mines
Committee	Extendable Energies	(Algeria)	
		1996	
Member of the Scientific	Seminary on Power	Biskra	University of Biskra
Committee	Engineering	(Algeria)	
		1995	
Member of the Scientific	Scientific and Technical days	Boumerdès	National Institute of
Committee	of the INH	(Algeria), 1994	Hydrocarbons and Chemistry

Languages Known: Arabic: Read, Write, and Speak (Fluently) English: Read, Write, and Speak (Average) French: Read, Write, and Speak (Fluently) Russian: Read, Write, and Speak (Fluently)