

Chammam Abdeljelil

C U R R I C U L U M V I T A E

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PERSONAL DETAILS

Date of Birth: 20 August 1964

Nationality: Tunisia

Marital Status: Married



EDUCATION AND QUALIFICATIONS

University of Paul Sabatier 2001 – 2005
LAPLACE Laboratory, Toulouse, France

PhD in Electrical Engineering
Research thesis: Study of high pressure mercury and halogen mercury discharges supplied by rectangular and pulsed currents

Higher College of Sciences and Technology of Tunis 1992 – 1995

Master's Degree in Electrical Engineering
Subject: Study and achievement of a Static Var Compensator.

Higher College of Sciences and Technology of Tunis 1987 – 1990

Engineer's Degree in Electrical Engineering

Higher Institute of Technological Studies 1985 – 1987

Higher Technician Diploma

Additional Training

- Design, Realization and modelling of the electronic supply for High Intensity Discharge lamps intended for water treatment, Electronic Power Supply for HID lamps, Centre of Plasma Physics and Applications of Toulouse, France
- Power Electronics, Liege University, Belgium
- Physics instrumentation, Electrical Machine Drives, Catholic University of Louvain la Neuve, Belgium
- Industrial Electronics, Tunisian Radio Television (ERTT) Tunis
- Electrical Installation, ESSTT, Tunis, Tunisia
- Industrial Electricity, Tunisian Radio Television (ERTT) Tunis

Seminars

- Protection of Electric Installations
- Programmable Automats
- Industrial Control
- Variable Speed Transmissions of Electric Engines
- Modern lighting

Handbooks

- Development of four course handbooks related to the following subjects: Electric machines, Power electronics, Electric drive and control and analogue electronic circuits.
- Development of a numerical handbook in the field of Industrial measurement.
- Animation of teacher training
- Management of training projects
- Development of reference frames of activities and competences
- Development of professional training schemes

CAREER HISTORY

Advisor for more than 50 graduated projects.

Assistant Professor

SALMAN BIN ABDULAZIZI UNIVERSITY, COLLGE OF ENGINEERING AT ALKHARJ February 2011-present

- Alumni committee coordinator
- Abet college committee member

HIGHER COLLEGE OF SCIENCES AND TECHNOLOGY
Tunis

September 2000 – February 2011

- Courses: Electric machines, Power electronics, Electric drive and control and analog electronic circuits.
- Alumni committee member
- Open days committee member
- Advising committee member
- Member of the organisation committee of the international conference ' JTEA 2006' ' JTEA 2008' ' JTEA 2010'
- Member of the college scientific council 2008, 2011.
- Master Committee member.

Teaching Assistant

1998 – 2000

HIGHER INSTITUTE OF TECHNOLOGICAL STUDIES
Nabeul

- Member of the scientific council of the institute, 1999-2000
- Courses: Power electronics and industrial control
- Member of commission of assignment and organization of the training courses

1993 – 1998

HIGHER INSTITUTE OF TECHNOLOGICAL STUDIES
Gabes

- Coordinator of courses in Power Systems and Power Electronics.
- Courses: Electric machines and Power Electronics.
- Member of commission of the graduation project, 1994-1998
- Member of the organisation committee of the conference: ' Industrial informatics (In partnership with the Institute of Technology in Grenoble, France

RESEARCH ACTIVITIES

- Advisor of 10 masters.
- Co-adviser of 2 theses
- 1997-2001 : Active researcher in the European research project AVICENNE (France, Tunisia, Morocco, Spain, Romania, Russia)
- 2001-2004: Active researcher in the Franco-Tunisian research project (CNRS-DGRSRT) about pulsed electronic power supply and water treatment.
- 2005-2007: Active researcher in the research project between France, Tunisia and Canada (Trojan UV Company) about the development of 3 KW lamps electronic power supply: applied for water treatment..
- 2005-2008: member in the Franco-Tunisian research project (CNRS-DGRSRT) about the study of energy saving in the urban network of illumination.
- 2008-2010 : Active researcher in the Franco-Tunisian research project about the treatment of food products using UV
- 2011-2014: Member in other research projects (subject 1: Power quality in electric network, Subject 2: Bridge Monitoring in KSA) at Salman bin Abdulaziz University.

ADDITIONAL SKILLS

Computer Skills

- Familiar with the use of Windows applications and software, especially Microsoft Word, Excel, PowerPoint, Access
- Proprietary software includes MS Project, Origine, IGOR
- Electrical diagram: Orcad, Protel, Autocad,
- Modelling and simulation: Matlab and Pspice

Languages

- Arabic: Mother tongue
- French: Excellent
- English: read, written and spoken

INTERESTS AND ACTIVITIES

Areas of interest as regards to scientific research include renewable energies, particularly wind power; numerical pedagogy and its application to the remote formation. Sporting activities include football, badminton and swimming.

JOURNAL PAPERS

[J9] Messai Tlili, **Abdeljelil Chammam**, Anis Sellami : “Conductivity Polynomial Model Parameters identification based on Particle Swarm Optimization”, *Journal of Control Engineering and Applied Informatics*, CEAI, Vol.15, No.4 pp. 58-65, 2013.

[J8] W. Nsibi, M.N. Nehdi, **A. Chammam**, H. Elloumi, A. Sellami and G. Zissis :

Behavior of high pressure sodium discharge lamp fed by pulsed power supply

Lighting Research and Technology published online 3 October 2013

DOI: 10.1177/1477153513506431

The online version of this article can be found at:

<http://lrt.sagepub.com/content/early/2013/10/02/1477153513506431>

[J7] M.N. Nehdi, H. Elloumi, W. Nsibi, **A. Chammam**, A. Sellami and G. Zissis : ‘Dimming control by variation of the switching frequency for high-intensity discharge lamps ‘

Lighting Research and Technology published online 26 September 2013

DOI: 10.1177/1477153513501103

The online version of this article can be found at

<http://lrt.sagepub.com/content/early/2013/09/24/1477153513501103>

[J6] M.N. Nehdi, **A. Chammam**, W. Nsibi, H. Elloumi and G. Zissis ‘Low-Frequency Dimming Control for HID Lamps. *International Review on Modelling and Simulations*’ (IREMOS), vol.5, N.2-April 2012.

[J5] Myriam Ben Said, Mounir Ben Mustapha, Dhekra Trabelsi, Abdennaceur Hassen, **Chammam Abdeljelil** :

‘Improvement of water disinfection process by UV-C irradiation’

Journal of Water Science: Volume 24, numb 3, 2011, p. 241-250.

[J4] Mohamed Bouaoun, Hatem Elloumi, Lamia Troudi, **Abdeljelil Chammam**, Kamel Charrada and Mongi Stambouli : ‘ Study of the influence of additive on the radiative properties of a HgT_I high pressure discharge ‘

. *Phys. D: Appl. Phys.* **43** 185205. doi:10.1088/0022-3727/43/18/185205

Received 30 September 2009, in final form 8 March 2010. Published 21 April 2010.

2010 IOP Publishing Ltd.

[J3] L. Bouslimi, **A. Chammam**, M. Ben Mustapha, M. Stambouli, J. P. Cambronne

‘Simulation and Experimental Study of an Electronic Pulsed Power Supply for HID Lamps Intended for Photochemical Applications’

International Review of Electrical Engineering – Papers Part A (IREE), published October 2009.

[J2] Brahim Mrabet, , Hatem Elloumi, **Abdeljelil Chammam**, Mongi Stambouli and G.ZISSIS ‘Effect of a pulsed power supply on the ultraviolet radiation and electrical characteristics of a low-pressure mercury discharge’

1 EPS, ESSTT, 5 Rue Taha Hussein, 1008 Tunis, Tunisie

2 CPAT, UPS, 118 rte de Narbonne, 31062, Toulouse Cdx4, France

Received 12 May 2006

Plasma Devices and Operations vol 14, N0.4, December 2006, 249-259

<http://www.tandf.co.uk/journals>.

[J1] **Abdeljelil Chammam**¹, Hatem Elloumi, Brahim Mrabet, Kamel Charrada,,Mongi Stambouli and Jean Jacques Damelincourt ‘Effect of a pulsed power supply on the spectral and electrical characteristics of HID lamps ‘

Published 1 April 2005 .Online at stacks.iop.org/JPhysD/38/1170.

Conference Papers

[C31] Messai Tlili, **Abdeljelil Chammam** and Anis Sellami, “Modeling and control of a low pressure discharge lamp used for ultraviolet radiations water disinfection”

The 4th International Renewable Energy Congress IREC’2012, December 20 - 22, 2012, Sousse – Tunisia.

[C30] Mohamed Nejib Nehdi, Walid Nsibi, **Abdeljelil Chammam** , Hatem Elloumi,, Anis Sellami, and Georges Zissis.

“Duty Cycle Control for HID Lamps “

13th International conference on Sciences and Techniques of Automatic control & computer engineering

[C29] Messai Tlili, **Abdeljelil Chammam** and Anis Sellami, "Parameters identification of a low pressure discharge lamp based on PSO"

16th IEEE Mediterranean Electrotechnical Conference MELECON 2012, March 25- 28, 2012 - Hammamet, Tunisia.

[C28] Walid Nsibi, Mohamed Nejib Nehdi, **Abdeljelil Chammam** et Hatem Elloumi

"Influence du mode d'alimentation pulse sur les caractéristiques électriques et photométriques des lampes à décharges haute pression"

CNRP10, 10ème Colloque National de Recherche en Physique le 20-21-22-23 Décembre 2011 à l'Hôtel El Mouradi Palace, El Kantaoui, Sousse.

[C27] Mohamed Nejib NEHDI, Walid NSIBI, **Abdeljelil CHAMMAM**, Mohamed BOUAOUN et Hatem ELLOUMI

" Résonances acoustiques dans les décharges électriques haute pression "

CNRP10, 10ème Colloque National de Recherche en Physique le 20-21-22-23 Décembre 2011 à l'Hôtel El Mouradi Palace, El Kantaoui, Sousse

[C26] Messai Tlili, **Abdeljelil Chammam** and Anis Sellami,

"Parameters identification of conductivity model of a low pressure discharge lamp based on RLS Algorithm"

The 12th international Conference on Sciences and Techniques of Automatic control & computer engineering STA'2011, Décembre 18-20, 2011 Sousse, Tunisia.

[C25] **A.Chammam**, W.Nsibi, M.Stambouli, G.Zissis

"The experimental study of alternative mode with micro shut down power supply used for alimentation of high pression discharge lamp (HP 400W)"

LS12, the science and technology of light sources, 12th international symposium Eindhoven, the Netherlands, July 11-16, 2010

[C24] Nsibi walid, Chammam Abdeljalil, Stambouli Mongi and Nehdi Mohamed Nejib.

"Characterization of the high pressure discharge lamp in alternative mode with micro cut: experimental study of 400 W HP lamp".

JTEA 10, 16th international conference of electrical systems and automatic control held in Hammamet on March 26-28, 2010

[C23] Mohamed Nejib NEHDI, Walid NSIBI, **Abdeljelil CHAMMAM**, Mongi STAMBOULI

"DIMMING OF THE DISCHARGE LAMP MERCURY BY AN ELECTRONIC CONTROLLER"

JTEA 10, 16th international conference of electrical systems and automatic control held in Hammamet on March 26-28, 2010

[C22] Messai Tlili, Anis Sellami, **Abdeljelil Chammam** and Mongi Stambouli,

"Discrete time sliding mode control of a low pressure discharge lamp"

The 10th international Conference on Sciences and Techniques of Automatic control & computer engineering STA'2009, December 20-22, 2009 Hammamet, Tunisia.

[C21] Messai Tlili, Anis Sellami and **Abdeljelil Chammam**,

"Sliding mode control of a low pressure discharge lamp"

The 9th international Conference on Sciences and Techniques of Automatic control & computer engineering STA'2008

[C20] Abdeljelil Chammam and all 'The experimental study of the current pulse duration on the HID lamps luminance ' PES/SSD'09 - Power systems. 23-26 March 2009. International Conference on Systems, Signals & Devices (SSD'09)

[C19] Abdeljelil Chammam and all -'Effect of a pulsed power supply on the ultra violet radiation and electrical characteristics of low pressure mercury discharge' PES/SSD'09 - Power systems. 23-26 March 2009. International Conference on Systems, Signals & Devices (SSD'09)

[C18] Abdeljelil Chammam and all 'Electric and spectral characterization of a high pressure mercury lamp used in the photochemical treatment » STA'2008 –AIA, pages 1 à 8, 20-22 December 2008. International Conference STA'2008

(Sciences and Technologies of Automation).

[C17] Abdeljelil Chammam and all 'Décharge mercure-argon basse pression : modélisation et alimentation en créneau de courant' STA'2008-AIA-363, pages 1-10; 20-22 December 2008. International Conference STA'2008 (Sciences and

Technologies of Automation)

[C16] Abdeljelil Chammam and all 'Achievement of a resonant converter for H.I.D lamps' 5th INTERNATIONAL CONFERENCE JTEA 2008 : May 2-4 , 2008 Hammamet , Tunisia.

[C15] Abdeljelil Chammam and all 'Effect of the pulsed current on the electrical and photometrical characteristics of H.I.D lamps'.

5th INTERNATIONAL CONFERENCE JTEA 2008 : May 2-4 , 2008 Hammamet , Tunisia.

EVER MONACO'2008

[C14] Abdeljelil Chammam and all 'The experimental study of pulsed power supply used for high power discharge lamp: Application to a 3 KW MP lamps used in waste water treatments'EVER MONACO'2008/ 27-30 March 2008. France.

[C13] Abdeljelil Chammam and all 'The impact of the electronic power supply mode on the kinetic inactivation of bacterial using the UV-C radiation ' EVER MONACO'2008/ 27-30 March 2008. France.

[C12] Abdeljelil Chammam and all "Experimental study of the pulsed current power supply of lamps MHP for water treatment". International Conference STA'2007 (Sciences and Technologies of Automation) November 2007, Hammamet – Tunisia.

[C11] Abdeljelil Chammam and all "Disinfection of used water by a low-pressure mercury-argon lamp UV rays." International Conference STA'2007 (Sciences and Technologies of Automation) November 2007, Hammamet – Tunisia.

[C10] Abdeljelil Chammam and all 'Influence of the pulsed current power supply on the 254nm radiation flux emitted by germicidal ultraviolet lamp'

11th International Symposium on the Science and Technology of Light Sources May 20 – 24, 2007 Shanghai

[C9] Abdeljelil Chammam and all 'Coupling of a pulsed powered supply to high pressure mercury lamp destined to the photo chemistry' .

International Conference STA'2006 (Sciences and Technologies of Automation) December 17-19, 2006 Hammamet – Tunisia)

[C8] Abdeljelil Chammam and all 'Electronic supply current regulated for a low pressure UV lamp'.

International Conference STA'2006 (Sciences and Technologies of Automation) December 17-19, 2006 Hammamet – Tunisia)

[C7] Abdeljelil Chammam and all 'Effect of a powered power supply on UV rays and electrical parameters of a low pressure Mercury-Argon discharge'.

4th INTERNATIONAL CONFERENCE JTEA May 2006 , Tunisia.

[C6] Abdeljelil Chammam and all 'Pulsed Power supply: Application to High Pressure Mercury Discharge.

Third International Conference on Systems, Signals & Devices (SSD'05)

March 21-24, 2005 – Sousse, Tunisia

[C5] Abdeljelil Chammam and all 'Influence of The Current Inverter on The Emission Radiation of The Low Pressure Mercury Tubular Discharge Used In Waste Water Treatment by U.V Irradiation.

ICIT04, Hammamet, Tunisia, December 2004 (IEEE)

[C4] Abdeljelil Chammam and all 'Pulsed power supply for high pressure discharge lamps'.

10th International Symposium on Science and Technology of Light Sources (LS10), July 18-22, 2004, Toulouse France.

[C3] Abdeljelil Chammam and all 'Study of the influence of the current waveform and of the power supply frequency on the ultra violet radiation of a low pressure mercury discharge'

[C2] Abdeljelil Chammam and all 'Behaviour of the high pressure mercury lamps, fed by a pulsed power supply'.

Second International Conference on Signal System Decision and information Technology (SSD'03) March 26-28, 2003
Sousse, Tunisia.

[C1] Abdeljelil Chammam and all 'Study of radiation of a low pressure mercury lamp supplied with various waves of current: pulsed, continuous and sinusoidal '

Second International Conference on Signal System Decision and information Technology (SSD'03) March 26-28, 2003
Sousse, Tunisia.

REFEREES

- 1) Prof. Georges Zissis
Directeur Adjoint/Deputy Director

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F-31062 Toulouse Cédex 9 ; FRANCE

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- 2) Prof Jalel ZRIDA
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1008 Tunisia.*

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