

# Curriculum Vitae

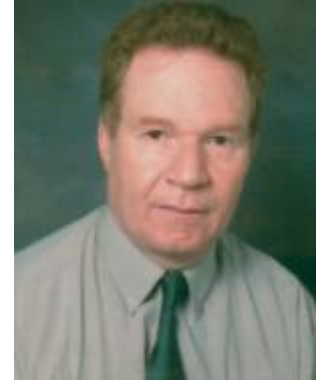
## Mokhtar SELLAMI

Senior research  
scientist  
State Doctorate  
(Doctorat d'Etat)  
Ph.D in Computer  
Science

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### **Current situation**

Full Professor, Supervisor  
Director of the Research Laboratory in  
Computer Science  
In Charge of Scientific  
Research/Development Projects

## 1) GENERAL INFORMATIONS

<i>Surname</i>	SELLAMI
<i>Name:</i>	Mokhtar
<i>Date and place of birth :</i>	15.02.1951 M'Sila
<i>Nationality</i>	Algerian
<i>Marital Status :</i>	Maried, 3 children
<i>Professional Address :</i>	University Badji Mokhtar, Faculty of Science Engineering LRI- Departement of Computer Science, B.P. 12, 23000, Annaba Algeria
<i>Current situation</i>	Full Professor, Supervisor Director of the Research Laboratory in Computer Science In Charge of Scientific Research/Development Projects
<i>Spoken languages</i>	French: fluent Arabic: fluent English: good spoken and written
<i>Skills, Areas of competence</i>	Information and Communication Technologies, Knowledge Management, Knowledge engineering, ontologies,

e-learning, Pattern Recognition

### *Hobbies*

Diving, walking, Music, web technologies

## **2) EDUCATION:**

- **1989:** State Doctorate in Informatics, prepared at the University of Grenoble (France), in the Center of Research in Computing, "A Matalanguage for the Generation of inference engine in the Expert Systems" .
- **1979:** Doctorate of Third cycle in computer Science in the UER of Informatics and Applied Mathematics under the supervision of Pr J. Rouault "Dynamic Performances of computer systems » Université de Grenoble - (75-79)
- **1975:** DEA - Informatics and Applied mathematics - University of Grenoble - France- (1974-75)
- **1974:** IMAG Certificates (Informatics and Mathematics)
- **1973:** Master of management - University of Constantine – Algeria
- **1969:** Technical baccalaureate, Secondary school Mohamed Kerouani Setif - Algeria

## **3) TEACHING EXPERIENCE**

- Knowledge Engineering and Knowledge Management (N\_Expert, Jess, Protege2000, CLIPS)
- Formal Semantics
- Expert Systems and Ontology
- Logic and Fonctional Programming (Prolog, Scheme, Lisp)
- Web-building technologies, including W3C standards (HTML, XHTML, CSS, XML) and other technologies (JavaScript, PHP, ASP, Mysql ...)
- Artificiel Intelligence and Expert Systems

## **4) RESEARCH EXPERIENCE**

- Chairman of the national committee " ICT and software development" in the Ministry delegated to scientific research in Algeria
- President of the scientific committee in computer science
- Member of the Scientific Committee of the Algerian Spacial Agency (Decision of the Head of the Government Number 047, 24th may 2003)
- Member of the Scientific Committee of the Advanced Development Technology Center ( ministry decree Number 23, 28th january 2001 )
- Permanant Member of the International African Conference on Information and Communication Technology
- Expert for the evaluation of National Research Project in the Ministry of Higher Education and Scientific Research in Algeria (PNR).

- Maghrebien Coordinator of the SARIMA Network (Support for the Activities of Research in Informatics and Mathematics in Africa) , financed by the french foreign office Ministry.
- Manager of the Algerian Sakai E-learning project, financed by the International Development Research Centre
- Others :
- 1985-1989 : Member and representative of the Algerian University in the European Academic Research Network (EARN).
- 1993-1998 : Supervisor of the project « management in Algérie », financed by the CIDA (Canadian International Development Agency).

## **5) ADMINISTRATION (Management) EXPERIENCE**

- Director of the Research Laboratory in Computer Science at Annaba University
- Supervisor of the Post-Graduate studies "ICT and Document"
- Manager of Research/Development projects in Information systems and Network (MIND, Sonatrach, Ports)

### **Antecedent Responsibilities:**

- Manager of the Computing Center (1982-1984)
- Director of the Institut of Mathematics and Computer Science(1983-1984)
- Vice-president of the university in charge of Postgraduate studies and research (1989-1992)
- Rector of the University ad interim (ministry decree Number 587, 19th april 1992)
- President of the Scientific council of the Institut (1994-1997)

### **Management of Academic Research projects (1978 - 2003):**

- Research and Development project on Information and Communication Technology Applied to the knowledge management, applied to the hydrocarbones industries (under process)
- Research Project on the process control and maintenance of industrial installation in the domain of energy ANDRU Project (2000-2005), Accomplished with good results
- Multiexpert system applied to the arabic speech recognition. Projet B2301/09/99 - (Janvier 2000 - Janvier 2002). Realised with the mention : good results.
- Distributed Problem Solving and & Cooperation - Projet

B2301/10/97. (Janvier 95 - Janvier 99). Realised with the mention : good results.

- Environnement of problem solving - Projet B2301/02/01/93 (Janv93/95). Realised with the mention : good results.
- Environnement of advanced technology for symbolic information management Project: B2301/01/01/91 (Janv 91/93) - realised with the mention : good results.

## 6) LATEST INTERNATIONAL PUBLICATIONS

- F. Laallam, M. Sellami : "*Gas Turbine Ontology for the Industrial Processes*", Journal of Computer Science, Volume 3, Num 2, pp 111-118, January 2007. Science Publications New York, USA. ISSN 1549-3636.
- L. Souici, M. Sellami : « *A hybrid neuro-symbolic approach for arabic handwritten word recognition* " JACIII, Journal of Advanced Computational Intelligence and Intelligent Informatics, Vol. 10, N°1, Tokyo, January 2006
- H. Seridi, M. Sellami: "*Adaptive Instructional Planning using neural networks in Intelligent Learning Systems*", The international Arab Journal of Information Technology, IAJIT, volume 3, issue 3, Juillet 2006. ISSN : 1683-3198.
- L. Souici, M. Sellami : "*Toward a generalization of neuro-symbolic recognition*" , International Journal of Knowledge-based and Intelligent Engineering Systems Vol 10, N05, pp.347-361 2006
- T. Sari, M. Sellami : « *Arabic character segmentation and recognition system* », International Journal of Computers and Applications, Volume 27, Num 3, July 2005, Publisher Actapress, Calgary, Canada
- Seridi .H, Sari.T, Sellami.M, " *A Neural Network for Adaptive Lesson generation* " . Journal of Computer Science. Volume 1, Numéro 2, Avril 2005. Science Publications New York, USA. ISSN 1549-3636.
- L. Souici, M. Sellami : "*Perceptual Recognition of Arabic Literal Amounts*", Computing and Informatics Journal, Vol 25, pp 43-59, 2006
- T. Farah, L. Souici,, M. Sellami : « *Classifiers combination and syntax analysis for arabic literal amount recognition*», Engineering Applications of Artificial Intelligence, Volume 19, Issue 1, February 2006
- H. Bahi, M. Sellami, « *Integration of rule-based systems and neural networks into speech recognition system* » WSEAS Transaction On systems, Issue 2, Volume 3, April. 2004. ISSN: 1109-2777.
- H. Bahi, M. Sellami, "*Connexionnist expert system for Arabic speech recognition*", The International Arab Journal of Information Technology, Vol. 2, No. 2, April 2005, pp:149-154.
- Farah N., Souici L., Sellami M., "*Arabic Word Recognition by Classifiers and Context*", JCST, Journal of Computer Science and Technology, Vol. 20, No. 3, pp: 402-410, May 2005
- Souici L, Sellami M., " *A hybrid approach for Arabic literal amounts recognition* ", AJSE, the Arabian Journal for Science and Engineering, Volume 29, Number 2B, pp: 177-194, October 2004.
- Souici L., Farah N., Sari T., Sellami M., " *Rule based neural networks construction for handwritten arabic city-names recognition*", Proceedings of the 11th International conference Artificial Intelligence: AIMSA 2004, Varna, Bulgaria, September 2004, ,

LNAI 3192, pp: 331-340, Springer, ISSN: 0302-9743

- Farah N., Souici L., Sellami M., " *Arabic words recognition with classifiers combination: An application to literal amounts*", Methodology, Systems, Architectures, AIMS 2004, Varna, Bulgarie, 02-04 September, LNAI 3192, pp: 420-429, Springer, ISSN: 0302-9743
- Seridi.H., Sellami.M., (2002), " *An adaptive Distance Learning Architecture*" 6th International Conference, ITS 2002. Biarritz, France and San Sebastian, Spain, June 2002. LNCS 2363, Springer Verlag Edition
- Seridi.H, Sari.T, Sellami.M, (2004), " *Adaptive Lesson generation*" , IFIP WCC'2004 Toulouse 2004. 18th IFIP World Computer Congress. Technology Enhanced Learning -Book published at Springer Verlag. eBook 0-387-24047-0. ISBN (HB) 0-387-24047
- Lazli L, M. Sellami, " *Hybrid HMM-MLP system based on fuzzy logic for arabic speech recognition*", International Conference on Machine Learning and Data-Mining, MLDM 2005, LNCS, Springer Verlag Edition, July 2005

## PAPERS IN REFEREED CONFERENCES

- Laallam F.Z. , Sellami M., "Operationalisation of industrial gas turbine ontology" The International Arab Conference on Information Technology Arab Academy for Science & Tech. and Maritime Trans., Lattakia, November 26-28, 2007
- A. Benouareth, A. Ennaji, M. Sellami, " *HMMs with Explicit State Duration Applied to Handwritten Arabic Word Recognition*", ICPR 2006. 18th International Conference on Pattern Recognition, Volume 3, 20-24 Aug. 2006. Page(s): 897 – 900.
- Boumaza K., Sellami M., " *Using neural networks to discriminate between Arabic and Latin writings* ", JETALA'06, Rabat, Maroc, Juin 2006
- Benouareth A, A. Ennaji, Sellami M., " *Semi-Continuous HMMs with Explicit State Duration Applied to Arabic Handwritten Word Recognition*", IWFHR 2006.
- Hassina Seridi, Toufik Sari, Tarek Khadir, Mokhtar Sellami. ' *Adaptive Instructional Planning in Intelligent Learning Systems*'. Proceedings of the Sixth IEEE International Conference on Advanced Learning Technologies Pages: 133 – 135. ISBN:0-7695-2632-2. IEEE Computer Society Washington, DC, US
- M. Sellami, A. Saadi « *e-Mind : A dynamic system for integrating and consulting pieces of knowledge in hydrocarbon maintenance process*», IEEE proceedings, SETIT05, Tunis
- Farah N., Khadir T., Sellami M., ' *Artificial neural network fusion: Application to Arabic words recognition*', European Symposium on Artificial Neural Networks ESANN 2005, Bruges, Belgium
- Seridi .H, Sari.T, Sellami.M, (2004), " *A Connectionist Approach for Adaptive Lesson generation*", Conférence TICE 2004, Compiègne, France. Octobre 2004
- H. Bahi, M. Sellami, *Integration of rule-based systems and neural networks into speech recognition system*, WSEAS Trans. On systems, Issue 2, Volume 3, pp :778-783, Avr. 2004.
- Seridi .H, Sari.T, Sellami.M, (2003), " *Dynamic Generation of Adaptive Pedagogical Documents*", The fourth IEEE International Conference on Information Technology Based Higher Education d Training, ITHET(2003), Marrakech, Morocco, July 2003
- L. LAZLI, M. Sellami. " *Hybrid HMM-MLP system based on fuzzy logic for arabic speech recognition*". PRIS2003, The third international workshop on Pattern Recognition in Information Systems, April 22-23, Angers, France, 2003.

- Souici L, Sellami M., (2001), "A neuro-symbolic approach for Arabic literal amounts recognition", ICCTA'2001, 11th International Conference on Computer Theory and Applications, Alexandria, Egypt, August 2001
- Souici L, Sellami M., (2001), "Toward an Arabic check amounts recognition system", AICCSA Workshop on Software for the Arabic Language", ACS/IEEE International Conference on Computer Systems and Applications, Lebanese American University, Beirut, Lebanon, June 2001
- Seridi.H., Sellami.M., (2001), "Design of an Intelligent Tutoring System On The WWW to Support Interactive Learning" International Conference on Engineering Education. (ICEE 2001) August 6 - 10, 2001 Oslo, Norvège.
- Seridi.H., Sellami.M., (2001), "A methodology for designing an intelligent tutoring system on the WWW supporting interactive learning", Fifth International Conference on Computer Base Learning in Science CBLIS'2001 7<sup>th</sup> July-12<sup>th</sup> July 2001 at the Masaryk University, Faculty of Education, Brno, Czech Republic. Editor Graham M Chapman, De Montfort University, Leicester, UK.. ISBN 80-7042-180-0.
- Bahi H., Sellami M., *Combination of vector quantization and hidden Markov models for Arabic speech recognition*, Proceedings ACS/IEEE International conference on computer systems and applications, Beirut, Lebanon, June 2001, pp:96-100.
- Bahi H., Sellami M., *An acoustical based approach for arabic syllables recognition, workshop on software for the arabic language, AICCSA'2001, , Beirut, Lebanon, June 2001.*
- Seridi.H., Sellami.M., (2001), "A methodology for designing an intelligent tutoring system on the WWW supporting interactive learning", World Conference of the WWW, WebNet'2000. AACE USA.
- L. LAZLI, M. Sellami. "A new method for unsupervised classification: Application for the speech clustering". SETIT2003, Conférence internationale : Sciences Electroniques, Technologies de l'Information et des Télécommunications, 17-21 Mars , Sousse, Tunisie, 2003
- H. Bahi, M.Sellami, *Hybrid approach for Arabic speech recognition*, proceedings ACS/IEEE de la conference AICCSA'03-Tunis,Tunisie, Juil. 2003.
- Sari T., Souici L., Sellami M., (2002), " Off-line Handwritten Arabic Character Segmentation and Recognition System: ACSA-RECAM ", IWFHR'2002, 8th International Workshop on Frontiers in Handwriting Recognition, pp: 452-457, Niagara-on-the-Lake, Ontario, Canada, August 2002

## 7) PHD SUPERVISION:

- **FARAH Nadir** « Contribution à l'étude des systèmes multiclassifieurs: application à la reconnaissance de mots arabes manuscrits", Thèse de **Doctorat d'Etat**, soutenue publiquement le 22 décembre 2005: Jury Présidente: Mokhtari-Aiissani Aicha Pr, Rapporteur: M. Sellami Pr, Examineurs: Batouche M., Abdel ENNAJI (PSI Rouen), Bedda P., Université Annaba
- **BAHI Halima** « Un système neuro-symbolique pour la reconnaissance de la parole", Thèse de **Doctorat d'Etat**, soutenue publiquement le 19 décembre 2005: Jury Présidente: Batouche Mohamed Pr, Rapporteur: M. Sellami Pr, Examineurs: Zemirli Z, MC, K. Smaili (Loria), Doghmane N, Pr ., Université Annaba

- **AMIAR Lotfi**: « Un système hybride AG/PMC pour la reconnaissance de la parole arabe" le **17.11.2005**, Moyenne 14.63, Jury : Khadir Tarek HDR, Zemirli Zouhir MC, Kholadi Mohamed, Rapporteur : Sellami Mokhtar, Pr, Université Annaba
- **ALLALGA Wahid**: « Vers une automatisation de la construction d'ontologies" le **25.07.2005**, Moyenne 13.53, Jury : Batouche Mohamed Pr, Bensebaa Tahar MC, Merouani Hayet MC, Rapporteur : Sellami Mokhtar, Pr, Université Annaba
- **HADJERIA Mourad**: « Interconnexion de services pour le web sémantique: une application à la maintenance industrielle" le **18.07.2005**, Moyenne 13.63, Jury : Batouche Mohamed Pr, Bensebaa Tahar MC, Merouani Hayet MC, Rapporteur : Sellami Mokhtar, Pr, Université Annaba
- **ANGUEL Fouzia** : « Vers un système de gestion de connaissances pour l'aide au diagnostic de pannes dans un système industriel » le **18.02.2004**, Moyenne 14.63, Jury : Babès Malika MC, Batouche Mohamed Pr, Boufaïda Zizette Pr, Merouani Hayet MC, Rapporteur : Sellami Mokhtar, MC, Université Annaba
- **TALEB Nora** : « Approche d'acquisition de connaissances pour la construction d'un modèle dédié à un Système à base de connaissances» le **14.10.2003**, Moyenne 13.48, Jury : Babès Malika MC, Bensebaa Tahar CC, Merouani Hayet MC, Rapporteur : Sellami Mokhtar, MC, Université Annaba
- **LAZLI Lilia** : « Système de reconnaissance neuro-markovienne pour la parole arabe isolée basée sur une segmentation floue » le **30.06.2003**, Moyenne 13.48, Jury : Laskri Mohamed Tayeb, Drias Habiba Pr, Baatouche Mohamed, Henni Abderrezak, Rapporteur : Sellami Mokhtar, MC, Université Annaba
- **AZZIZI Nabiha** « Contribution de classifieurs neuronaux basée sur la logique floue : application à la reconnaissance de mots arabes manuscrits » le **09.01.2003**, Mention très honorable, Jury : Boufaïda M., Henni A., Laskri M. Tayeb, Djeddi N., Rapporteur : Sellami Mokhtar, MC, Annaba –
- **KERMI Sofia**: « Classifieur neuronal basé connaissances: Application à la reconnaissance des caractères arabes manuscrits ». le **11.03.2000**, Mention très honorable, Jury : Djeddi Noureddine, Baatouche Mohamed, Doghmane Noureddine, Rapporteur : Sellami Mokhtar, MC, / Université de Annaba
- **SARI Toufik** « Système de reconnaissance de mots arabes manuscrits basé segmentation » le **11.03.2000**, Mention très honorable, Jury : Djeddi Noureddine, Baatouche Mohamed, Doghmane Noureddine, Rapporteur : Sellami Mokhtar, MC, Institut d'Informatique / Université de Annaba – 0
- **BENOUARETH Abdallah**, « Reconnaissance de l'écriture arabe manuscrite par une approche hybride ». le **14.02.2000**, Mention très honorable, Jury : Sahnoun Zaidi, Batouche Mohamed, Bensebaa Tahar, Ahmed-Nacer Mohamed, Rapporteur : Sellami Mokhtar, MC / Université de Annaba –
- **AMICHE AHCENE**: Diagnostic des pannes dans le procédé de fabrication du polyéthylène (compression secondaire) - Mémoire de Post Graduation - Institut d'Informatique / Université de Annaba - **Mai 1996**
- **ZOUHIR BELAID**: Conception et réalisation d'un système à base de connaissances d'aide au diagnostic de pannes pour un moteur diesel - Mémoire de Post Graduation - Institut d'Informatique / Université de Annaba - **Mai 1996**
- **BESSAM Mohamed** : « Coopération et intégration d'outils de développement dans

les systèmes experts» le **06.11.1996**, Mention très honorable, Jury : Araar Abdellaziz, Laskri Mohamed Tayeb, Djeddi Noureddine, Kholadi Med Kheireddine, Rapporteur : Sellami Mokhtar, MC, Université de Annaba –

- **BAHI Halima**: « Coopération des théories dans un environnement de résolution de problèmes logiques » le **21.10.1996**, Mention très honorable, Jury : Ghanemi Salim, Laskri Mohamed Tayeb, Babès Malika, Badri Mourad, Rapporteur : Sellami Mokhtar, MC, / Université de Annaba –
- **SOUICI Labiba**: « Système connexionniste pour la reconnaissance des caractères arabes manuscrits » le **22.06.1996**, Mention très honorable, Jury : Ghanemi Salim, Laskri Mohamed Tayeb, Belamri Rachid, Rapporteur : Sellami Mokhtar, MC, Université de Annaba
- **BAAZIZ Abdelhalim**, « Prolog parallèle: implémentation à base du join et fork ». le **13.05.1993**, Mention très honorable, Jury : Benyelles Choukri, Belmesk Zoubir, Ghanemi Salim, Maouche Mourad, Rapporteur : Sellami Mokhtar, MC, Université de Annaba
- **BENZETTA Lahçene**: « Constructeur d'un interpréteur Prolog avec gestion des coroutines », le **26.09.1992**, Mention très honorable, Jury : Ghanemi Salim, Ghoul Said, Laskri Mohamed Tayeb, Rapporteur : Sellami Mokhtar, MC, Institut d'Informatique / Université de Annaba –
- **MENAI Mohamed Bachir** « Vers un contrôle global de la déduction partielle » le **13.05.1993**, Mention très honorable, Jury : Benyelles Choukri, Belmesk Mounira, Azzoune Hamid, Ghoul Said, Maouche Mourad, Rapporteur : Sellami Mokhtar, MC, Université de Annaba

## 8) PROGRAMME COMMITTEES

- CARI'2008: International African Conference on Research in Computer Science and Applied mathematics, Rabat, Morocco, October 2008, <http://www.cari-info.org>
- [icisp2008](http://www.stlo.unicaen.fr/icisp2008/), International Conference on Image and Signal Processing July 1-3, 2008, Cherbourg-Octeville, France, <http://www.stlo.unicaen.fr/icisp2008/>
- MCSEAI'08 : Maghrebian Conference on Software Engineering and Artificial Intelligence, Oran, May 4-7, 2008, Algeria
- ICDAR'2007 :International Conference on Document Analysis and Recognition, Curitiba, Brésil, September 2007 : <http://www.icdar2007.org>
- ISPS'2007 : International Symposium on Programming and Systems, Alger 9-11 Mai 2007 <http://www.isps2007.dz>
- ITHET'2006 :International Conference on Information Technology Based Higher Education & Training, Australia, <http://ithet06.eng.uts.edu.au/>
- ACIT'2007: International Arab Conference on Information Technology, Lattakia, Syria <http://www.acit2k.org/sub2007.html?ACIT2007>
- ACIDCA-ICMI'05 : International Conference on Machine Intelligence, Tozeur, Tunisie, Novembre 2005, <http://acidca-icmi2005.org>
- ACIT 2005 : International Arab Conference on Information technology, December, 6-8, Jordan, <http://www.acit2k.org>

- ICSIT'05 : International Conference on Systems and Information Technology, conférence IEEE – Alger, Juillet 2005, <http://www.icsit.org>
- ISPS'2005 : International Symposium on Programming and Systems, Alger 9-11 Mai 2005 <http://www.isps2005.dz>
- CARI'2004 : Colloque Africain sur la Recherche en Informatique, , Hammamet, Tunisie, Novembre 2004 - <http://www.cari-info.org>
- ARIMA-CARI'04 : Comité de lecture du numéro spécial – CARI'04 de la Revue ARIMA <http://www.irisa.fr/arima>
- CIFED 2004 : Conférence sur le Document et l'écrit, La Rochelle, France, Juin 2004
- MCSEAI'04 : Huitième Conférence Maghrébine sur les Systèmes Informatiques, Mai 2004, Sfax, Tunisie
- ITHET-2003 : Information Technology based Higher Education and Training, Marrakech, Morocco, July 2003
- ICISP'2003 : Agadir, Morocco, 2003
- AICCSA 2003 : International Conference on Computer Systems and Applications, Tunis, Tunisie, Juillet 2003