

CURRICULUM VITEA

First Name: Maamar
Family Name: AHFIR
Born: 22 November 1963 in Cherrhell - ALGERIA

Degrees:

June 1990 – Good Ingéniorat in Electronics - University of BLIDA - ALGERIA
October 1997 – Great Honour Magister in Optoelectronics - University of BLIDA – ALGERIA
March 2008 – Great Honour Doctorate in Electronics – ENP School of ALGIERS -ALGERIA

Professional Activities:

1990-1994 – Teaching Assistant at the University of BLIDA.
1997-2007 – Lecturer at the University of LAGHOUAT.
2008- 2012 – University Lecturer at the University of LAGHOUAT.
2012 – at present – Associate Professor at the University of LAGHOUAT.

Courses Taught:

Signal Theory and Signal Processing;
Electro Acoustics;
Optoelectronics;
Basic Components for Computers;
Technical English Language.

Supervision:

- Many Engineers Students for Under Graduation Final Projects.
- 2012 – 1 Master Student – Theme: Phonocardiogram Analysis.
- 2012 – 1 PhD Student – Theme: Automatic French Speech Recognition – Underway.

Laboratories Member:

1998-1999 – Research Assistant at the Laboratory: " Speech Processing", Department of Electronics, University of BLIDA, Algeria.

2004 – at present - Visiting Researcher at the Laboratory: Applied DSP and VLSI Research Group, Department of Electronic Systems, University of Westminster, 115 New Cavendish Street, London, United Kingdom – www.advrg.wmin.ac.uk/staff.htm.

Research Interests

Acoustic Signals and Systems Analysis and Processing - Filtering and Inverse Filtering – Additive and Convolutional Denoising - Automatic Segmentation of Speech and Heart Sounds Signals – Phonocardiogram Analysis and Objective Criterion Computing for Cardiac Auscultation Diagnosis

Teaching Materials:

[1] الااء اشارات المحددة و المستمرة [1] - OPU 2003 - ISBN: 9961.0.0656.9. (2nd year Engineer in Computer

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Science and 3rd year Engineer in Electronics) - (Signal Theory - in Arabic).

[2] Introduction à la structure d'une machine (Cours et Exercices) – 1st year LMD Cycle, Math & Informatics – ISBN: 978-9947-975-41-7, DL: 430-2011 - (Basic Components for Computers - in French).

Book Chapter:

M.Ahfir & I.Kale, "A Novel Approach Engineering for Heart Murmurs Detection and Classification", Electrical Intelligent Systems, Lecture Notes and in Electrical Engineering, Springer, Volume 130, 2013, pp 147-154.

Journal Papers:

[1] M. Ahfir, I. Kale "Conversion of FIR Minimum-phase Inverse Filters to IIR approximants for Room Acoustics Equalization", IEEE Journal of Selected Topics in Signal Processing 2014 (Submitted Paper).

[2] M. Ahfir, I. Kale, and D. Berkani, "An Alternative Approach to the Balanced Model Truncation Algorithm for Acoustic Minimum-Phase Inverse Filters Order Reduction," *ISRN Signal Processing*, vol. 2011, Article ID 971051, 6 pages, 2011. doi:10.5402/2011/971051.

[3] M. Ahfir, I. Kale, A. Krukowski and D. Berkani, " Partial Equalization of Non-Minimum Phase Impulse Responses", *EURASIP Journal on Applied Signal Processing*, Volume 2006, N° 13, ISSN: 1110-86575.

[4] M. Ahfir, D. Berkani and A. Benallal, "Equalization Using Acoustical Room Zeros For Speech Dereverberation ", *Yemeni Journal of Science*, ISSN: 1562-6326, pp 53-70, Vo 5, N° 2, April 2004.

[5] M. Ahfir and A. Benallal, "Simulation of Impulse Response of an Acoustic Channel, "Algerian Journal of Technology, COMAI'98 Bedjaia, ISSN: 1111-357X, pp 305-308, December 1998 (in French).

Conference Papers:

[1] M. Ahfir and I. Kale, " Automatic Synchronization and Segmentation of heart Sounds Signals based on their Continuous Average Energy ", Second World Congress on Multimedia and Computer Science-International Conference on Signal Processing and Imaging Engineering 2014, Hammamet, Tunisia, August 09-11, 2014.

[2] M. Ahfir, and I. Kale, " Cardiac Auscultation Improvement by Objective Criteria Computing ", ICSIE 2011, 6-8 July 2011, London, UK.

[3] M. Ahfir, I. Kale and D. Berkani, " Inverse Filter Order Reduction for Room Acoustics

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Equalization", ICADIWT 2009, 4-6 August 2009, London, UK.

[4] M. Ahfir, I. Kale, D. Berkani and E. Cetin, " Implementation of a Reduced Complexity FIR Inverse Filter on DSP Board for Room Equalization", 2008 IEEE International Symposium on Industrial Electronics, Cambridge, UK (Accepted Paper).

[5] M. Ahfir, I. Kale, D. Berkani, "Room Equalization Based on Iterative Simple Complex Smoothing of Acoustic Impulse Responses", IEEE ICASSP 2006 May 17-21, Toulouse, France.

[6] M. Ahfir, I. Kale, A. Krukowski and D. Berkani, "ROOM EQUALIZATION BASED ON ITERATIVE SIMPLE COMPLEX SMOOTHING OF ACOUSTIC IMPULSE RESPONSES", The 12th IEEE International Conference ICECS'05, Vol 1, pp 256-259, December 2005, Tunisia.

[7] M. Ahfir and A. Benallal, "Improvement of an Identification Method in the Measurement of Acoustic Impulse Responses", IEAA'97 International Conference, Vol Control Engineering, pp 60-63, University of Batna, Algeria, December 1997, (in French).

Thesis:

[1] M.Ahfir, "Drereverberation Systems Design for Room Acoustics", Doctorate Thesis, ENP School, Algiers, Algeria, March 2008 – (in English).

[2] M.Ahfir, "Measurement and Modeling of Acoustic Impulse Responses", Magister Thesis, University of Blida, Algeria, October 1997 – (in French).

Reviewer:

- 1- ICADIWT 2009, 4-6 August 2009, London, UK – www.dirf.org/diwt2009.
- 2- Signal Processing - <http://ees.elsevier.com/sigpro/>.
- 3- Intelligent Signal Processing Conference, ISP 2013, 2015, London, UK.

Referees:

1- Prof Izzet Kale, Director of Applied DSP and VLSI Research Labo, and Head of Electronic Systems Department, University of Westminster, 115 New Cavendish Street, London, United Kingdom.

Email : kalei@westminster.ac.uk

2- Prof Daoud Berkani, Director of Signal and Communication Labo, Electronics Department, ENP School of Algiers, 10 Avenue Hassen Badi, BP: 182, El-Harrach, Alger, ALGERIA.

Email : dberkani@hotmail.com

Programming Skills:

Matlab/Simulink

IT Skills:

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Word, Excel, and PowerPoint: Good.

Language Skills:

Arabic: excellent spoken and written.

French: excellent spoken and written.

English: fluent spoken and written.

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