

# CURRICULUM VITAE

## PERSONAL DETAILS

Fatma zohra CHELALI

**Name:** Fatma zohra CHELALI  
**Date and place of birth:** December, 16th, 1970. Algiers, ALGERIA.  
**Nationality:** Algerian  
**Work Address:** Houari Boumediene University of Sciences & Technology,  
PoBox.32, El Alia, Bab Ezzouar, 16111, Algiers  
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## ACADEMIC EDUCATION

February 2018 HDR in Telecommunications.  
June 2012 Doctorate degree in speech communication. Faculty of electronic and computer science, Houari Boumediene University of Sciences & Technology of Algiers, ALGERIA.  
Mai 2006 Magister degree in speech communication. Faculty of electronic and computer science, Houari Boumediene University of Sciences & Technology of Algiers, ALGERIA.  
June 1994 Engineer Degree in Telecommunications, Faculty of electronic and computer science, Houari Boumediene University of Sciences & Technology of Algiers, ALGERIA.  
June 1989 Baccalaureate in natural science.

## SCIENTIFIC AFFILIATIONS AND MEMBERSHIP

- **Since 2006**, member of Speech communication and Signal processing laboratory, Faculty of Electronics and computer science, University of Science and technology Houari Boumediene , USTHB, Algiers, Algeria.
- **Since June 2011** Member of the IEEE Algerian Sub-Section for 2012, IEEE member 92031821, region R8 -Europe, MEast, Africa.
- **From December 2015 to December 2017**, secretary of IEEE Algeria section.
- **January 2017 to December 2019:** Secretary of the Algeria IEEE section.
- **January 2019 to December 2021:** Vice chair of the Algeria IEEE section.
- Vice chair of IEEE-ICAEE'19 conference.
- Volunteering
- **From Mai 2016 to 2019 :** Responsable of « Master of Telecommunications systems » of Electronics and computer science faculty, USTHB.Algiers.
- Member of the Scientific Committee of many IEEE International Conferences.

## Research Interest

Pattern recognition  
Audiovisual recognition and human-computer interaction,  
Speech and image analysis,  
Audiovisual compression.

## Summary of professional activity

Assistant teacher in the High school of Aeronautical Technicians (Ecole supérieure des Techniciens de l'Aéronautique ESTA) from 1998 to 2008;  
Lecturer at University of Science and technology since 2008.

## Student Research Supervision

### *Chaired Master Degrees*

About 25 projects

### *Chaired Engineer Degrees*

About 19 projects

### *Chaired 3 PHD projects*

## Publications

1. **FZ. CHELALI** , Amar DJERADI, " Primary research on Arabic visemes, Analysis in space and frequency domain", International Journal of Mobile Computing and Multimedia Communication (IJMCMC), published by IGI Global, USA,pp 1-19, DOI: 10.4018/IJMCMC, ISSN: 1937-9412, EISSN: 1937-9404, vol.3 , N°4,2011.
2. **Fatma zohra CHELALI** , Amar DJERADI, "Face Recognition System using Discrete Cosine Transform combined with MLP and RBF Neural Networks". International Journal of Mobile Computing and Multimedia Communication (IJMCMC), published by IGI Global, USA, DOI: 10.4018/jmcmc.2012100102, Volume 4, Issue 4. 1-35, October-December 2012.
3. N . CHERABIT, **FZ. CHELALI** A .DJERADI, "Circular Hough Transform for Iris localization", Science and Technology (p-ISSN: 2163-2669, e-ISSN: 2163-2677), Scientific & Academic Publishing, USA. (Vol.2, No.5, September 2012).
4. **Fatma zohra CHELALI**, Amar Djeradi , "Face recognition using MLP and RBF neural network with Gabor and discrete wavelet transform characterization, a comparative study", Journal of Mathematical Problems in Engineering (MPE). Volume 2015 (2015), Article ID 523603, 16 pages.
5. **Fatma zohra CHELALI**, Amar Djeradi, "Audiovisual Speaker identification based on lip and speech modalities", The International Arab Journal of Information Technology IAJIT, , Publisher: Zarqa University. Publication type: Journals. ISSN: 16833198, H Index: 8. impact factor 0.582. To be published in January 2017.
6. **Chelali, F.Z.** & Djeradi, "Text dependant Speaker recognition using MFCC, LPC and DWT", A. Int J Speech Technol (2017) , vol 20(3), 725-740.
7. Nouredine Cherabit, Amar Djeradi and **Fatma zohra Chelali**, "Tracking feature points of the talking face", International Journal of Applied Mathematics, Electronics and Computers, pp 121-125, Vol 4, N4, 2016. ISSN 2147-8228.
8. Khadidja SADEDDINE, **Fatma Zohra Chelali**, Rachida Djeradi, Amar Djeradi, Sidahmed Benabderrahmane, "Recognition of user-dependent and independent static hand gestures: Application to sign language", Journal of Visual Communication and Image Representation, Volume 79, Aout 2021.
9. Salah Eddine AGAB, **Fatma zohra CHELALI** , Local Binary Pattern and Edge Histogram Descriptor for Dynamic Hand Gesture Recognition , International Journal of Electronic and Electrical Engineering Systems, Volume 3, N°1 – March 2020.

## International Conference Proceedings

33 conference papers

## National Conference Proceedings

4 conference papers

Participation in 03 research Project

## LANGUAGES

Arabic Mother language

French Advanced level

English Intermediate level