CURRICULUM VITAE

Last name   AJGOU
First name   RIADH
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Professional Address: Department of Electrical Engineering, University of
                     El-Oued, Faculty of technology, P.O. Box 789, Eloued
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Home Addresse :   P.O. BOX, 131 Beni Morrah 07014 Biskra, Algeria.,

Gender: Male
Marital status: Marie.
Date and place of birth: June 11, 1979 in Kimmel (Batna)
Nationality : Algerian

1- Professional situation

Joined the university of El-Oued as Assistent professor "B" since November 20, 2011.
Since june, 2, 2013, I worked as Assistent professor "A" .
In 14/02/2016, I have had the PhD degree, so that I become Associate Professor.
In 15/03/2018, I have had the Habilitation research (After PhD degree)

2- Degrees.

Post-Graduation :   **Certificates   of   Authorization   to   supervise research**.(Habilitation research (After PhD degree))
Université Echahid Hamma Lakhdar, Eloued
18 march 2018.

PhD (14/02/2016) in Telecommunications
Theme of my research :   « Reconnaissance automatique du locuteur à travers les canaux digitaux (Speaker recognition over digital Channel).
University of Biskra.

Magistère (Master) (17/03/2010) in Telecommunications
Theme of my research: «Pitch detection by time-frequency and time-scale methods», 11 March 2010. UNiversity of Mohamed khider Biskra, Algeria

Engineering degree (June 2004) in Automatic
Theme of my research :   « Robust control of an autopilot missile». University of Biskra.

3 – Scientific production

AJGOU Riadh., Reconnaissance Automatique du locuteur à Travers les Canaux Digitaux- Thérorie et Applications. 6131509085, 9786131509087. Editions universitaires européennes EUE, 2016

Publication:

S. GHENDIR, S. SBAA, A. AL-SHERBAZ, R. AJGOU, A. CHEMSA. "Performance assessment of uwb multipath channel using rake receiver types". Courrier du Savoir – N°24, Septembre 2017, pp.67-72

AJGOU, R., SBAA, S., AOURAGH, S., and *al.* "Détection du pitch par les ondelettes continues en temps réel pour un signal parole basé sur un seuil adaptatif pour unes détermination V/NV". Courrier du savoir, 2012, N°12, Octobre 2011, pp.21-26

Ghendir, S., Sbaa, S., Al-Sherbaz, A., Ajgou, R., & Chemsa, A. (2019). Towards 5G wireless systems: A modified Rake receiver for UWB indoor multipath channels. *Physical Communication*, *35*, 100715.

CHEMSA, A., LABBI, Y., HETTIRI, M., *et al.* New semi-blind approach to optimize turbo decoding for a cauchy α-stable impulsive noise channel. *Journal of Fundamental and Applied Sciences*, 2018, vol. 10, no 2.

Ajgou Riadh, Sbaa Salim, Guendir Said, Guettal Lemya " Robust Speech Enhancement Based on Singular Value Decomposition and an Efficient Threshold", international journal of systems applications, engineering & development, 2017, vol. 11.pp. 307-315

Riadh AJGOU, Salim SBAA, Said GHENDIR, Ali CHEMSA, A. Taleb-Ahmed," Robust Speaker Identification System Over AWGN Channel Using Improved features Extraction and Efficient SAD Algorithm with Prior SNR Estimation", international journal of circuits, systems and signal rocessing, 2016, vol. 10.pp.108-118

Riadh AJGOU, Salim SBAA, Said GHENDIR, Ali CHEMSA, A. TALEBAHMED," An Efficient Approach for MFCC Feature Extraction for Text Independant Speaker Identification System", international journal of communiucations, 2015, vol. 09.pp.114-122.

Riadh AJGOU, Salim SBAA, Ghendir Said, A. Chemsa, A. Taleb-Ahmed, " Novel Detection Algorithm of Speech Activity and the impact of Speech Codecs on Remote Speaker Recognition System", *WSEAS Transactions on Signal Processing*, 2014, vol. 10.

Said Ghendir, Salim Sbaa, Riadh Ajgou, A. Chemsa, A. Taleb-Ahmed, "Performance Evaluation of Time Hopping UWB Transmission using S-Rake Receiver", *WSEAS Transactions on communication,* 2015, vol.14.

International conferences :

ZEKRI, Abdelbasset Bedda, AJGOU, Riadh, CHEMSA, Ali, *et al.* Analysis of Outdoor to Indoor Penetration Loss for mmWave Channels. In : *020 1st International Conference on Communications, Control Systems and Signal Processing (CCSSP)*. IEEE, 2020. p. 74-79.

MEFTAH, El-Hadi et AJGOU, Riadh. Multiuser detection in OFDM-IDMA systems using noisy Independent Component Analysis. In : *020 1st International Conference on Communications, Control Systems and Signal Processing (CCSSP)*. IEEE, 2020. p. 62-67.

ZEKRI, Abdelbasset Bedda, AJGOU, Riadh, et HETTIRI, Messaoud. Impact of Azimuth and Elevation Half Power Beam Width on Human Blockage scenarios in mmWave Channels. In : *020 1st International Conference on Communications, Control Systems and Signal Processing (CCSSP)*. IEEE, 2020. p. 41-45.

ZEKRI, Abdelbasset BEDDA et AJGOU, Riadh. Study of mmWave channels for different scenarios. In : *2019 6th International Conference on Image and Signal Processing and their Applications (ISPA)*. IEEE, 2019. p. 1-6.

RIADH, AJGOU, SALIM, S. B. A. A., MASSAOUD, HETTIRI, et al. Subspace Approach for Enhancing Speech based on SVD. In : 2018 International Conference on Communications and Electrical Engineering (ICCEE). IEEE, 2018. p. 1-8.

GHENDIR, Said, SBAA, Salim, et AJGOU, Riadh. Evaluation of Data Rate Effects on UWB Channel Estimation. In : 2018 International Conference on Communications and Electrical Engineering (ICCEE). IEEE, 2018. p. 1-5.

Said Ghendir ,Riadh Ajgou, Salim Sbaa, Ali Al-Sherbaz "Evaluation of Multi-user Effects on the Channel in the TH-UWB Communication Systems "The 5th International Conference on Electrical Engineering – Boumerdes (ICEE-B) October 29-31, 2017, Boumerdes, Algeria.

Ajgou Riadh, Sbaa Salim, Said. Ghendir, Chemsa Ali, Abdelmalik Taleb-Ahmed, " New Speech Enhancement Method based on Wavelet Transform and Tracking of Non Stationary Noise Algorithm," *Proceedings of Recent Advances on Electroscience and Computers, Barcelona,* Spain, April 7-9, 2015.pp 45-52.

Said Ghendir, Salim Sbaa, Riadh Ajgou, Ali Chamsa and A. Taleb-ahmed," Novel M-ary PPM Time Hopping Scheme for UWB Communications . *Proceedings of New Developments in Circuits, Systems, Signal Processing, Communications and Computers* Vienna, Austria, 15-17 March 2015. pp 156-160

Riadh Ajgou, Salim Sbaa, Said Ghendir,Ali Chamsa and A. Taleb-ahmed," Speaker Recognition System Based on ARMFCC and SAD Algorithm with Prior SNR Estimation and Adaptive Threshold over AWGN channel," Proceedings of the 2014 International Conference on Recent Advances in Electrical Engineering and Educational Technologies , Athens, Greece November 28-30, 2014. pp 120-128.

Ajgou Riadh, Sbaa Salim, Said. Ghendir, Chemsa Ali, Abdelmalik Taleb-Ahmed, "Robust Remote Speaker Recognition System Based on AR-MFCC features and Efficient Speech activity detection Algorithm," *Eleventh International Symposium on Wireless Communication Systems (ISWCS'2014)*, 26th – 29th August 2014, Barcelona, Spain

Riadh Ajgou, Salim Sbaa, Said Ghendir,Ali Chamsa and A. Taleb-ahmed," Effects of speech codecs on a remote speaker recognition system using a new SAD," *Proceedings of the 2014 International Conference on Systems, Control, Signal Processing and Informatics II (SCSI '14),* Prague, Czech Republic April 2-4, 2014. pp 71-78.

Said. Ghendir, Salim. Sbaa, Riadh. Ajgou, Abdelmalik. Taleb-Ahmed and Ali. Chemsa, "High Bit Rate UWB Communication in Dense Multipath Channels," *Proceedings of the 2014 International Conference on Latest Trends on Communications,* Athens, Greece July 17-21, 2014.

R. Ajgou, S. Sbaa, S. Ghendir, A. Taleb-Ahmed, "Détection du pitch par les ondelettes discrètes en temps réel par un seuil adaptatif ", *Third International Conférence on Image ans Signal Processing and their Applications*, Mostaganem university, ISPA 2012.

S. Ghendir, S. Sbaa, R. Ajgou, A. Chemsa, A. Taleb-Ahmed , "Radio Channel Estimation for UWB Communications Using Maximum-Likelihood Criterion, " *Image and Signal processing their Applications, ISPA'2012*, Mostaganem, Algeria, Décembre 2-3 & 4,2012.

S. Ghendir, S. Sbaa, R. Ajgou, A. Chemsa, A. Taleb-Ahmed, "Caractérisation des Communications Ultra-large Bande en Utilisant les Récepteurs RAKE, " *International Conference on Embedded Systems in Telecommunications and Instrumentation*, Annaba, Algeria, Novembre 05-07, 2012

R. Ajgou, S. Sbaa, S. Ghendir, A. Taleb-Ahmed , "Détection du pitch par un seuil adaptatif et en temps réel par les ondelette discrètes, " *First International Conference on Signal, Image, Vision and their applications,* Guelma, Algeria, Novembre 21-24, 2011. P.187-192.

Ajgou, r., Sbaa, s., Aouragh, s., & A. Taleb-Ahmed "Continuous wavelet-based real-time pitch detection for speech signal based on adaptive threshold for V / NV determination". Second International Conference on Image and Signal Processing and their Applications, Biskra university, ISPA 2010.

AJGOU, R., SBAA, S, "Adaptive algorithm for determining V / NV based on EZR (Application to speech signal)". First International Conference on Image and Signal Processing and their Applications, Mostaganem university, ISPA 2009.

4. Specific pedagogical positions

05/22/2018 Head of (Telecommunications)
09/14/2016 Head of (Telecommunications)
07/05 / 2013- to 14/02/2015 Head of specialty (Telecommunications).
02/21/2016 to 09/13/2016 Head of specialty (Telecommunications).

5. PhD supervision :

2018/2019 "Optimization of the energy and spectral efficiency of massive MIMO systems for future mobile networks (5G and beyond)"

2018/2019 "Millimeter wave (MMW) communication link for future mobile networks (5 G and beyond)".

2018/2019 " Resource Allocation for Device-to-Device communications in future mobile Networks (5G and beyond)"

2018/2019 "Code Domain Non Orthogonal Multiple Access for future mobile networks (5G and beyond)"

2019/2020 '' Hybrid beam forming-Based Massive MIMO in Future Mobile networks "

2019/2020 "Power Domain Non Orthogonal Multiple Access (NOMA) in future Mobile Systems "

6 - Supervision (Master degrees) :

2019/2020 "Study and simulation of the MIMO Beamforming system"

2019/2020 « Study and simulation of the 28 GHz band with MIMO in the city of El Oued "

2018/2019 "Massive MIMO study for 5G"

2018/2019 "Study and sizing of a mobile WiMAX network".

2018/2019 " Study and simulation of SCMA access technique in fifth generation 5G mobile networks"

2017/2018 " Production of a Robotcar controlled by an Android smartphone"

2017/2018 " Comparative study of noise estimation techniques (application to the speech signal)".

2017/2018 "Study, Sizing and Planning of a 4G LTE Networks"

2016/2017 "Speech signal enhancement through a subspace approach".

2016/2017 "Speech signal enhancement using EMD techniques".

2016/2017 "Comparative study of speech coding techniques through a noisy channel".

2015/2016 "Comparative study of noise reduction techniques speech signal for the single-channel case".

2015/2016 "Noise of the speech signal by transforms wavelets".

2012/2013 "BER performance of OFDM-BPSK, -QPSK through AWGN using FEC".

7- Teaching:

1. Electronic functions.
2. Logic and Calculators
3. Architecture of computers and microprocessors
4. Computer tools and networks for telecommunications
5. Signal processing
6. Computer networks for telecommunications
7. Mobile communications
8. Transmission media
9. Telecommunications network systems
10. Basic telecommunications
11. Telecommunications networks.
12. Wireless network and mobile networks