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Personal Information	<p>P.O. Box 57168, Riyadh 11574, Saudi Arabia Tel: (+966)-1-467-7105 Fax (+966)-1-275-7558 Mobile: 0555284552 Email: yaalotaibi@ksu.edu.sa Website: http://fac.ksu.edu.sa/yaalotaibi/home Publications: http://scholar.google.ca/citations?user=A_UKvyUAAAAJ&hl=en</p>
Education	<p style="text-align: center;">1995-1997</p> <p>Ph.D. in Computer Engineering, Florida Institute of Technology, Melbourne, Florida. Majoring in speech recognition. Dissertation topic is “Studying Pharyngeal and Emphatic Sounds in Arabic Speech Recognition.” Arabic emphatic and pharyngeal sounds were studied from the speech recognition field point of view. The study concentrated on finding the unique characteristics of these sounds, comparing these sounds to English sounds, and investigating the effect of these sounds on the Arabic speech recognition systems. A complete Arabic speech recognition system was built and tested on Arabic alphabet. Several speech recognition algorithms were investigated and compared in the case of Arabic language.</p> <p style="text-align: center;">1992-1994</p> <p>MS in Computer Engineering, Florida Institute of Technology. Majoring in speech processing. Designed and implemented an algorithm for speech compression. The algorithms used frequency and Cepstrum domains to extract important signal characteristics that are enough to restore the signal in the decompression process</p> <p style="text-align: center;">1983-1988</p> <p>BS in Computer Engineering, King Saud University, Riyadh, Saudi Arabia.</p>
Experience	<p style="text-align: center;">Dec 2012- Present</p> <p>Professor, Computer Engineering Department, College of computer and information sciences, King Saud University. His currently teaching Signals and Systems (CEN340). Supervising Bachelor graduating projects.</p> <p style="text-align: center;">Feb 19, 2016- Present</p> <p>Vice Dean for Graduate Studies and Scientific Research, College of computer and information sciences.</p> <p style="text-align: center;">January 2009- November 2012</p> <p>Associate professor, Computer Engineering Department, College of computer and information sciences, King Saud University. For now, Courses taught: Digital Speech Processing (Master course CEN547), Seminar in Computer Engineering (CEN591 Master Course), Selected Topics in Computer Engineering (CEN491). Signals and Systems (CEN340). Supervising Bachelor</p>



	<p>graduating projects.</p>		
	Sep 1998-2000		
	Al-Khaleej Institute for Training and Electronic Industries, Riyadh, Saudi Arabia, teaching assistance in computer science and engineering major.		
	Feb 1998- June 1999		
	National Information Center, Riyadh, Saudi Arabia, working on research and development projects. These projects are digital signal processing and image processing related.		
	1988-1992		
	Research and Development Center (RDC), National Information Center, Riyadh, Saudi Arabia. Worked for the RDC for overseas design project contracts as follows:		
	❖ Jan 1990-Jul 1991		
	Jetta Computer products Inc., Houston, Texas. In this project, a Digital Signal Processing (DSP) board based on TMS320C25 TI DSP processor and TRW DSP chip was developed, implemented and tested. Digital speech compression theories were designed and implemented using this board. Speech compression ratio of 1:25 was achieved. This system was used for a low cost hand-held transceiver.		
	❖ Dec. 1988-Dec.1989		
	ALELM Research and Development Corp., Virginia Beach, Virginia. In this project, a DSP board based on TMS320C25 TI DSP processor was designed. This design was used to run and investigate DSP algorithms, i.e., Fast Fourier Transform (FFT), Inverse FFT, digital filters.		
	Undergraduate Courses		
<u>Taught courses</u>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> ❖ CEN211/214: Logic design I ❖ CEN212/215: Logic design lab I ❖ CEN313: Logic design and hardware description languages ❖ CEN315: Logic design lab II ❖ CEN321/333/316: Computer architecture I ❖ CEN340: Signals and systems ❖ CEN455: Digital control </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> ❖ CEN456: Digital control lab ❖ CEN457: Artificial intelligence ❖ CEN460: Digital speech processing ❖ CEN491: Selected topics in computer engineering ❖ CEN492: Graduation project I ❖ CEN493: Graduation project II ❖ CEN496/497: B.Sc. Graduation project I & II </td> </tr> </table>	<ul style="list-style-type: none"> ❖ CEN211/214: Logic design I ❖ CEN212/215: Logic design lab I ❖ CEN313: Logic design and hardware description languages ❖ CEN315: Logic design lab II ❖ CEN321/333/316: Computer architecture I ❖ CEN340: Signals and systems ❖ CEN455: Digital control 	<ul style="list-style-type: none"> ❖ CEN456: Digital control lab ❖ CEN457: Artificial intelligence ❖ CEN460: Digital speech processing ❖ CEN491: Selected topics in computer engineering ❖ CEN492: Graduation project I ❖ CEN493: Graduation project II ❖ CEN496/497: B.Sc. Graduation project I & II
<ul style="list-style-type: none"> ❖ CEN211/214: Logic design I ❖ CEN212/215: Logic design lab I ❖ CEN313: Logic design and hardware description languages ❖ CEN315: Logic design lab II ❖ CEN321/333/316: Computer architecture I ❖ CEN340: Signals and systems ❖ CEN455: Digital control 	<ul style="list-style-type: none"> ❖ CEN456: Digital control lab ❖ CEN457: Artificial intelligence ❖ CEN460: Digital speech processing ❖ CEN491: Selected topics in computer engineering ❖ CEN492: Graduation project I ❖ CEN493: Graduation project II ❖ CEN496/497: B.Sc. Graduation project I & II 		
	Postgraduate Courses		



	<ul style="list-style-type: none"> ❖ CEN543: Digital signal processing ❖ CEN547/549: Digital speech processing for master level ❖ CEN559: Selected topics in computer engineering for master level. ❖ CEN591: Master Seminar ❖ CEN591: Seminar in computer engineering for master level ❖ CEN592: Mater independent study ❖ CEN645: Digital processing of speech and video.
Research Interests	<ul style="list-style-type: none"> <li style="width: 50%;">❖ Speech recognition <li style="width: 50%;">❖ Artificial neural networks <li style="width: 50%;">❖ Arabic language processing <li style="width: 50%;">❖ Speech corpora analysis, design, and evaluation <li style="width: 50%;">❖ Arabic speech processing <li style="width: 50%;">❖ Speaker recognition
Memberships	<ul style="list-style-type: none"> <li style="width: 50%;">❖ IEEE senior member. <li style="width: 50%;">❖ Member of Saudi Computer Society <li style="width: 50%;">❖ TAU BETA PI Member. <li style="width: 50%;">❖ COST Action 2102 member (2009/2010). <li style="width: 50%;">❖ Member of ACM <li style="width: 50%;">❖ Listed Who's Who Catalog 2010
Others	<ul style="list-style-type: none"> ❖ Visiting professor, Université de Moncton, Campus de Shippagan, Canada, spring 2007, working with Prof. Sid-Ahmed Selouani. ❖ Visiting professor, University of Stirling, Scotland, UK, summer 2009, works with Prof. Amir Hussain. ❖ Visiting professor, Toyohashi University of Technology, Japan, fall 2010, worked with Tsuneo Nitta. ❖ Reviewed some Springer and Elsevier journal and conference papers ❖ Review for Muhabah student projects, 2010. ❖ KSU Award (the 19th list) for publishing in an ISI indexed journal. ❖ Research grant supported by KACST (Project No. 28-157)- completely finished and 2 conferences and ISI journal were published. ❖ Research grant supported by KSU NPST (Project No. 10-INF1325-02)- ongoing. ❖ Weekly general article in KSU newspaper.
Publications	Corpus
	<ul style="list-style-type: none"> ❖ Ali Meftah ,Yousef Alotaibi, Sid-Ahmed Selouani, “King Saud University Emotions Corpus (KSUEmotions)”, Linguistic Data Consortium (LDC). https://catalog.ldc.upenn.edu/LDC2017S12
	Journals
	<ul style="list-style-type: none"> ❖ Yasser Seddiq, Yousef Alotaibi, Sid-Ahmed Selouani, and Ali Meftah, “A proposed method for performance evaluation of phoneme-level automatic segmentation algorithms” Applied Acoustics, <i>Submitted</i> ❖ Ali Meftah, Hassan Mathkour, Said Kerrache, Yousef Alotaibi, “Speaker Identification in the Different Emotional States in Arabic and English”, IEEE ACCESS, <i>Initial Acceptance</i> ❖ Yousef Alotaibi, Sid-Ahmed Selouani, Mohammed Sidi Yakoub, Yasser Seddiq, and Ali Meftah, “A Canonicalization of Distinctive Phonetic Features to Improve Arabic Speech Recognition” Acta Acustica united with Acustica, 2019 Nov 1;105(6):1269-77.



- ❖ Md Saiful Islam, Mohamed Maher Ben Ismail, Ouiem Bchir, Mohammed Zakariah, **Yousef Ajami Alotaibi** “Robust Detection of Atrial Fibrillation Using Classification of a Linearly-Transformed Window of RR Intervals Tachogram” IEEE Access journal, Vol. 7, pp 110012-110022, Aug 2019.
- ❖ Yasser Seddiq, **Yousef Alotaibi**, Sid-Ahmed Selouani, and Ali Meftah, “Distinctive Phonetic Features Modeling and Extraction using Deep Neural Networks”, IEEE Access journal, Vol. 7, pp 81382-81396, Jun 2019
- ❖ Susmitha Vekkot, Deepa Gupta, Mohammed Zakariah, **Yousef Ajami Alotaibi**, “Hybrid framework for speaker-independent emotion conversion using i-vector PLDA and neural network”, IEEE Access journal, Vol. 7, pp 81883-81902, Jun 2019.
- ❖ Mustafa A Qamhan, Ammar A Qamhan, Ibrahim M Al-Harkan, **Yousef A Alotaibi**, “Mathematical Modeling and Discrete Firefly Algorithm to Optimize Scheduling Problem with Release Date, Sequence-Dependent Setup Time, and Periodic Maintenance”, Mathematical Problems in Engineering, Volume 2019, Article ID 8028759, 16 pages, 2019.
- ❖ Ali Meftah, **Yousef Alotaibi**, Sid-Ahmed Selouani, “*Evaluation of an Arabic speech corpus of emotions: A perceptual and statistical analysis*” IEEE Access journal, Vol. 6, Issue 1, pp 72845-72861, Dec 2018.
- ❖ Mohammed Zakariah, Shahanavaj Khan, Anis Ahmad Chaudhary, Christian Rolfo, Ben Ismail, Mohamed Maher, **Yousef Ajami Alotaibi**, Xiangxiang Zeng, Alfonso Rodríguez-Patón, Quan Zou, “To Decipher the Mycoplasma hominis Proteins Targeting into the Endoplasmic Reticulum and Their Implications in Prostate Cancer Etiology Using Next-Generation Sequencing Data.,” Molecules. 2018 May 1;23(5).
- ❖ **Yousef A. Alotaibi**, Yasser M. Seddiq, Ali H. Meftah, Sid-Ahmed Selouani and Mansour M. Alghamdi, “Revisiting distinctive phonetic features from applied computing perspective: unifying views and analyzing modern Arabic speech varieties” International Journal of Speech Technology, 21(4), pp.907-913. 2018.
- ❖ Soumaya Gharsellaoui, Sid-Ahmed Selouani, Wladyslaw Cichocki, **Yousef Alotaibi**, Adel Omar Dahmane, " Application of the pairwise variability index of speech rhythm with particle swarm optimization to the classification of native and non-native accents," Computer Speech & Language (CSL), Volume 48, March 2018, Pages 67-79.
- ❖ Ghania Droua-Hamdani, Sid-Ahmed Selouani, **Yousef A. Alotaibi**, Malika Boudraa, Analysis of rhythm speech in L1 and L2 Arabic, Arabian Journal for Science and Engineering, Vol. 41, Issue 3, 2016, pp. 1173-1181.
- ❖ Sid Ahmed Selouani, **Yousef A Alotaibi**, Cichocki Wladyslaw, Soumaya Gharsallaoui, Kamil Kadi, "Native and non-native class discrimination using speech rhythm- and auditory-based cues", Journal of Computer Speech and Language, Vol. 31, Issue 1, May 2015, pp. 28–48. (ISI Indexed).
- ❖ **Yousef Alotaibi**, Ali Meftah, “Review of distinctive phonetic features and the Arabic share in related modern research”, Turkish Journal of Electrical Engineering & Computer Sciences, 2013, Vol. 21 Issue 5, pp.1426-1439. ISI Indexed).
- ❖ Soumaya Gharsellaoui, Adel Omar Dahmane, **Yousef Alotaibi**, Sid Ahmed Selouani, Alaidine Ben Ayed, and Yacine Benahmed, "A Rhythm-Based Analysis of Arabic Native and Non-Native Speaking Styles," International Journal of Signal Processing Systems, Vol. 1, No. 2, pp. 202-207, December 2013.
- ❖ Sid-Ahmed Selouani, **Yousef Ajami Alotaibi**, "Adaptation To Non-Native Speech Using Evolutionary-Based Discriminative Linear Transforms", The International Scientific Journal Engineering Applications of Artificial Intelligence, Volume 26 Issue 2, February, 2013, pp.899-904 (ISI Indexed).
- ❖ **Yousef A. Alotaibi**, "Comparing ANN to HMM in implementing limited Arabic vocabulary ASR systems", International Journal of Speech Technology, Volume 15, Issue 1, Page 25-32, 2012.
- ❖ **Yousef Ajami Alotaibi**, Mansour Alghamdi, Fahad Alotaiby, “Speech Recognition System of Arabic Alphabet based on a Telephony Arabic Corpus”, The International Conference on Image



and Signal Processing 2010 (ICISP 2010), June 30 - July 2, Trois-Rivières, Québec, Canada, Springer-Verlag LNCS Book 5707, pp. 170–177, Berlin Heidelberg 2010

- ❖ **Yousef Ajami Alotaibi** and Amir Hussain “Comparative Analysis of Arabic Vowels using Formants and an Automatic Speech Recognition System”, *International Journal of Signal Processing, Image Processing and Pattern Recognition (IJSIP)*, pp. 11-21, Vol. 3, No. 2, June, 2010.
- ❖ **Yousef Ajami Alotaibi** and Mohammed Ghulam, “Study on Pharyngeal and Uvular Consonants in Foreign Accented Arabic for ASR”, *Computer Speech and Language, Elsevier Science*, pp. 219-231, Volume 24, Number 2, April 2010 (ISI Indexed).
- ❖ Mansour Alsulaiman, **Youssef Alotaibi**, Muhammad Ghulam, Mohamed A. Bencherif and Awais Mahmoud, “Arabic Speaker Recognition: Babylon Levantine Subset Case Study”, *Journal of Computer Science* 6 (4): 381-385, 2010.
- ❖ Mansour M. Alghamdi, **Yousef A. Alotaibi**, “HMM Automatic Speech Recognition System of Arabic Alphadigits”, *The Arabian Journal for Science and Engineering: Theme Issue: Arabic Computing*, Volume 35, No. 2C, Dec. 2010 (ISI Indexed).
- ❖ **Yousef Ajami Alotaibi**, Sid-Ahmed Selouani, Wladyslaw Cichocki, “Investigating Emphatic Consonants in Foreign Accented Arabic”, *Journal of King Saud University (Computer and Information Sciences Division)*, Vol. 21, pp. 13-25, 2009.
- ❖ **Yousef Ajami Alotaibi** and Amir Hussain, “Formant Based Analysis of Spoken Arabic Vowels”, J. Fierrez et al. (Eds.): *BioID_MultiComm2009*, Springer-Verlag LNCS Book 5707, pp. 170–177, Berlin Heidelberg 2009
- ❖ **Yousef Ajami Alotaibi**, “A Simple Time Alignment Algorithm for Spoken Arabic Digit Recognition”, *Journal of King Abdulaziz University: Engineering Sciences* Vol. 20 No. 1, pp: 29-43, 2009 A.D. / 1430 A. H.
- ❖ **Yousef Alotaibi** and Sid-Ahmed Selouani, “Evaluating MSA WestPoint Speech Corpus”, *The International Journal of Computer Processing Of Languages (IJCPOL)*, pp. 285-304, Vol. 22, No. 4 (2009)
- ❖ Alsulaiman M., **Alotaibi Y.**, Mahmood A. ,Bencherif M. A., Muhammad G.”Survey of Arabic Speaker Recognition”. Research report, College of Computer and Information Sciences, King Saud University, Saudi Arabia, 2009]
- ❖ M. Alsulaiman, A. Mahmood, **Y. Alotaibi** and M. A. Bencherif , ”Review of Arabic Speaker Recognition”, *Al-Azhar University Engineering journal, JAUES*. Vol. 3, No. 17, Dec. 2008, pp: 419-429.
- ❖ **Yousef Ajami Alotaibi**, Sid-Ahmed Selouani, and Douglas O'Shaughnessy, “Experiments on Automatic Recognition of Nonnative Arabic Speech,” *EURASIP Journal on Audio, Speech, and Music Processing*, vol. 2008, Article ID 679831, 9 pages, 2008. doi:10.1155/2008/679831 (ISI indexed).
- ❖ **Yousef Ajami Alotaibi**, “Automatic Recognition, Investigation, and Analysis of the Spoken Arabic Alphabet”, *Egyptian Computer Society Journal*, Vol.30, No. 2, May 2008.
- ❖ **Yousef Alotaibi** and Sid-Ahmed Selouani, “Experiments on Adaptation to Non-Native Arabic Accent in Automatic Speech Recognition”, *Journal of Saudi Computer Society, Applied Computing and Information*, Volume 2008, January 2008.
- ❖ **Yousef Ajami Alotaibi**, “Comparative Study of ANN and HMM to Arabic Digits Recognition Systems”, *Journal of King Abdulaziz University: Engineering Sciences*, Vol. 19 No. 1, pp: 43-60, 2008 A.D. / 1429 A. H.
- ❖ **Yousef Ajami Alotaibi**, “Investigating Spoken Arabic Digits in Speech Recognition Setting,” *Information Sciences Journal*, vol. 173 (June 2005), pp. 115-139 (ISI indexed).



	<ul style="list-style-type: none"> ❖ Yousef Ajami Alotaibi, “Speech Recognition,” IEEE Potentials Magazine, Vol. 17, pp. 23-28, Feb/Mar 1998.
	<p style="text-align: center;">Conferences</p> <ul style="list-style-type: none"> ❖ Ali Meftah, Hassan Mathkour, Mustafa Qamhan, Yousef Alotaibi, “Speaker Identification in Different Emotional States”, 12th IEEE/IET International Symposium on Communication Systems, Networks and Digital Signal Processing- CSNDSP 2020,<i>Submitted</i> ❖ Ali Meftah, Hassan Mathkour, Mustafa Qamhan, Yousef Alotaibi, “Speaker Identification in Different Emotional States in Arabic”, 28th European Signal Processing Conference, EUSIPCO 2020, <i>Submitted</i> ❖ Ali Meftah, Yousef Alotaibi, “Identification of Nasalization (Ghunnah) in Classical Arabic Dialect Using ANN”, UKSim-AMSS 22nd International Conference on Modelling & Simulation, Cambridge University (Emmanuel College), 25 - 27 March 2020, <i>Accepted</i> ❖ Soha Sandouka, Yousef Alotaibi, “Extended Rhythm-Based investigation of Saudi Dialects Using The Saudi Accented Arabic Voice Bank Corpus” International Conference on Communications, Signal Processing and their Applications (ICCSA '20), Sharjah, United Arab of Emirates April 12-14th, 2020, <i>Accepted</i> ❖ Ali Meftah, Mustafa Qamhan, Yousef Alotaibi, Mohammad Zakariah, “Arabic Speech Emotion Recognition Using KNN and KSUEmotions Corpus”, UKSim-AMSS 22nd International Conference on Modelling & Simulation, Cambridge University (Emmanuel College), 25 - 27 March 2020, <i>Accepted</i> ❖ Mustafa Qamhan, Ali Meftah, Mohammad Zakariah, Sid-Ahmed Selouani, Yousef Alotaibi, Yasser Mohammad Seddiq “Speech Emotion Recognition using Convolutional Recurrent Neural Networks and Spectrograms”, The 33rd Canadian Conference of Electrical and Computer Engineering. London, Ontario, Canada - April 26-29, 2020, <i>Accepted</i> ❖ Ali Meftah, Mustafa Qamhan, Yousef Alotaibi, and Sid-Ahmed Selouani, “Emotional Speech Recognition Using Rhythm Metrics and A New Arabic Corpus”, the 16th IEEE Colloquium on Signal Processing and its Applications (CSPA 2020). Langkawi Island, Malaysia on 28th to 29th February 2020. ❖ Fatimah Aloqayli and Yousef A Alotaibi, “Analyzing Vowel Triangles in Spoken Arabic Dialects”, IEEE International Symposium on Signal Processing and Information Technology Louisville, Kentucky, USA December 6 - 8, 2018 ❖ Ali Meftah, Yasser Seddiq, Yousef Alotaibi, and Sid-Ahmed Selouani, “Cross-Corpus Arabic and English Emotion Recognition” IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'17), December 18-20, 2017 - Bilbao – Spain ❖ Ali Meftah, Yousef Alotaibi, and Sid-Ahmed Selouani, “ Investigating Arabic Speakers’ Emotions Using Speech Rhythm Metrics”, EMS 2016 - European Modelling Symposium on Mathematical Modelling and Computer Simulation, 20 - 22 November 2017,Manchester ❖ Ali Meftah, Yasser Seddiq, Yousef Alotaibi, and Sid-Ahmed Selouani, “Building a Rich Arabic Speech and Language Corpus Based on the Holy Quran” The 6th International Conference on Arabic Language Processing, (ICALP 2017),October 11th - 12th 2017, Fez, Morocco ❖ Yousef Alotaibi, Yasser Seddiq, Ali Meftah, Sid-Ahmed Selouani, and Mohammed Sidi Yakoub “A New Look at the Automatic Mapping Between Arabic Distinctive Phonetic Features and Acoustic Cues”, 40th International Conference on Telecommunications and Signal Processing (TSP – IEEE Conference), July 5-7, 2017, in Barcelona, Spain. ❖ Yousef A. Alotaibi, Ali Meftah, Sid-Ahmed Selouani, “Classical Arabic Phoneme Contextual Analysis Using HMM Classifiers”, The 16th IEEE International Symposium on Signal Processing and Information Technology ISSPIT 2016), Dec. 12-14, 2016, Limassol, Cyprus. ❖ Ali Meftah, Yousef Alotaibi, Sid-ahmed Selouani, “Emotional Speech Recognition: A Multilingual Perspective”, International Conference on Bio-engineering for Smart Technologies (BioSMART 2016), Dec. 4-7, 2016, Dubai (UAE). ❖ Ali Meftah, Yousef Alotaibi, Sid-Ahmed Selouani, “A comparative Study to Different Speech Features for Arabic Phonemes Classification UKSim-AMSS 10th European Modelling



Symposium on Mathematical Modelling and Computer Simulation (EMS 2016), Nov 28-29, 2016, Pisa, Italy.

- ❖ Yasser M. Seddiq, Ali H. Meftah, Mansour M. Alghamdi, and **Yousef A. Alotaibi**, "Reintroducing KAPD as Dataset for Machine Learning and Data Mining Applications", UKSim-AMSS 10th European Modelling Symposium on Mathematical Modelling and Computer Simulation (EMS 2016), Nov 28-29, 2016, Pisa, Italy.
- ❖ **Yousef A. Alotaibi**, Mohammed Sidi Yakoub, Ali Meftah, Sid-Ahmed Selouani, "Duration Modeling in Automatic Recited Speech Recognition", The 2016 39th International Conference on Telecommunications and Signal Processing (TSP), June 27-29, 2016, Vienna, Austria.
- ❖ **Yousef A. Alotaibi**, Yasser M. Seddiq, Ali H. Meftah, Sid-Ahmed Selouani, and Mansour M. Alghamdi, "Distinctive Phonetic Features of Arabic Dialects: A Comparative Study", The 17th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2016), April 3–9, 2016, Konya, Turkey.
- ❖ Ali H. Meftah, **Yousef A Alotaibi**, Sid-Ahmed Selouani, Arabic speaker emotion classification using rhythm metrics and neural networks, The 2015 European Signal Processing Conference (EUSIPCO 2015) is the 23rd of its kind organized by the European Association for Signal Processing, 31st Aug-4th Sept 2015, Nice, France.
- ❖ **Yousef A. Alotaibi**, Yasser M. Seddiq, Mapping Arabic Acoustic Parameters to Their Articulatory Features Using Neural Networks, The 2015 Signal Processing and SP Education Workshop (formerly known as the DSP/DSP Education Workshop), August 9 – 12, 2015, Snowbird, UT, USA.
- ❖ Yasser M. Seddiq, **Yousef A. Alotaibi**, Sid-Ahmed Selouani, Frame Distance Array Algorithm Parameter Tune-up for TIMIT Corpus Automatic Speech Segmentation, 2015 IEEE International Conference on Electro/Information Technology (EIT), 21 May - 23 May 2015, Dekalb, IL, USA.
- ❖ Yasser M. Seddiq, **Yousef Alotaibi** and Sid-Ahmed Selouani, "Classification of Emphatic Consonants and Their Counterparts in Modern Standard Arabic Using Neural Networks", The IEEE International Symposium on Signal Processing and Information Technology, ISSPIT 2014, pp. xx-xx, Dec. 15-17, 2014, Noida, India.
- ❖ Ali Meftah, **Yousef Alotaibi** and Sid-Ahmed Selouani, "Preliminary Arabic Speech Emotion Classification", The IEEE International Symposium on Signal Processing and Information Technology, ISSPIT 2014, pp. xx-xx, Dec. 15-17, 2014, Noida, India.
- ❖ Ali Meftah, **Yousef Alotaibi** and Sid-Ahmed Selouani, "Designing, Building, and Analyzing an Arabic Speech Emotional Corpus: Phase 2", The 5th International Conference on Arabic Language Processing (CITALA 2014) Nov. 26th – 27th 2014, Oujda, Morocco.
- ❖ **Yousef A. Alotaibi**, Ali H. Meftah, Sid-Ahmed Selouani, Yasser M. Seddiq, "Speaker Environment Classification Using Rhythm Metrics in Levantine Arabic Dialect", 9th IEEE/IET International Symposium on Communication Systems, Network & Digital Signal Processing (CSNDSP'14) 23-25 July 2014, Manchester Metropolitan University, Manchester, U.K.
- ❖ **Yousef A. Alotaibi**, Ali H. Meftah, Sid-Ahmed Selouani, "Investigating the Impact of Phonetic Cross Language Modeling on Arabic and English Speech Recognition", 9th IEEE/IET International Symposium on Communication Systems, Network & Digital Signal Processing (CSNDSP'14) 23-25 July 2014, Manchester Metropolitan University, Manchester, U.K.
- ❖ Ghania Droua-Hamdani, Sid-Ahmed Selouani and **Yousef A. Alotaibi**, "Rhythm analysis in Arabic L2 speech", The 7th Speech Prosody Conference, May 20-23, 2014, Dublin, Ireland.
- ❖ Ghania Droua-Hamdani, **Yousef A. Alotaibi**, Si-Ahmed Sellouani, and Malika Boudraa, "Rhythmic Features across Modern Standard Arabic and Arabic Dialects", The 9th edition of the Language Resources and Evaluation Conference (LREC2014),OSACT Workshop, May 26-31, Reykjavik, Iceland.
- ❖ Ali Meftah, **Yousef Alotaibi**, Sid-Ahmed Selouani, "Designing, building, and analyzing an Arabic speech emotional corpus", The 9th edition of the Language Resources and Evaluation Conference (LREC2014),OSACT Workshop, May 26-31, Reykjavik, Iceland.
- ❖ Anwar A. Altuwaim, **Yousef A. Alotaibi**, Sid-Ahmed Selouani, "Investigation into the Speech Rhythm of Two Saudi Dialects Using the SAAVB Corpus", The 6th International Symposium on



Communications, Control, and Signal Processing (ISCCSP 2014), Athens, Greece, May 21-24, 2014.

- ❖ Alaidine B. Ayed, Ghania Hamdani-Droua, **Yousef A. Alotaibi**, Sid-Ahmed Selouani, "On the relevance of speech rhythm metrics to characterize social factors", GCC Conference and Exhibition (GCC), 2013 7th IEEE, Nov, 2013, Doha, Qatar, pp. 606 - 610.
- ❖ **Yousef A Alotaibi**, Ali H Meftah, Sid-Ahmed Selouani, "Diacritization, automatic segmentation and labeling for Levantine Arabic speech", Digital Signal Processing and Signal Processing Education Meeting (DSP/SPE), Napa, CA, Aug. 2013 IEEE, pp. 7-11.
- ❖ **Yousef A Alotaibi**, Ali H Meftah, Sid-Ahmed Selouani, "Investigation of emotion classification using speech rhythm metrics", Digital Signal Processing and Signal Processing Education Meeting (DSP/SPE), Napa, CA, Aug. 2013 IEEE, pp. 204-209.
- ❖ Ali H Meftah, Sid-Ahmed Selouani, **Yousef A Alotaibi**, "Investigating speaker gender using rhythm metrics in Arabic dialects", Systems, Signal Processing and their Applications (WoSSPA), 2013 8th International Workshop on. Algeria, pp. 347-350.
- ❖ **Yousef A Alotaibi**, Saud N Al-Otaibi, Yasser M Seddiq, Majed K Almanjoomi, Sulaiman S Al-Dahri, Formant based analysis of emphaticness property in MSA Arabic", Industrial Technology (ICT), 2013 IEEE International Conference on., Cape Town, pp. 1113-1116.
- ❖ **Yousef Ajami Alotaibi**, Sulaiman S. AlDahri, "Effect of Arabic Emphaticness on Voice Onset Time (VOT)", 2012 International Conference on Audio, Language and Image Processing (ICALIP'12), July 16-18, 2012, Shanghai, China.
- ❖ Sid-Ahmed Selouani, **Yousef A. Alotaibi** and Lin Pan, "Comparing Arabic Rhythm Metrics among other Languages", 2012 International Conference on Audio, Language and Image Processing (ICALIP'12), July 16-18, 2012, Shanghai, China.
- ❖ Sid-Ahmed Selouani, **Yousef A. Alotaibi** and Lin Pan, "Arabic and English Speech Recognition Using Cross-Language Acoustic Models", The 11th International Conference on Information Sciences, Signal Processing and their Applications (ISSPA' 12), July 3-5, 2012, Montreal (Quebec), Canada.
- ❖ Yasser M. Seddiq and **Yousef Ajami Alotaibi**, "Formant-Based Analysis of Vowels in Modern Standard Arabic—Preliminary Results", The 11th International Conference on Information Sciences, Signal Processing and their Applications (ISSPA' 12), July 3-5, 2012, Montreal (Quebec), Canada.
- ❖ **Yousef A. Alotaibi** and Ali H. Meftah, "West Point, SAAVB, and BBN/AUB Arabic Speech Corpora: A Comparative Survey", 4th International Conference on Arabic Language Processing, CITALA'12, May 2nd – 3rd 2012, Rabat, Morocco.
- ❖ **Yousef A. Alotaibi** and Ali H. Meftah "Automatic Segmentation Algorithm of Vowels in Arabic CVC Words", The ISCA 23rd International Conference on Computer Applications in Industry and Engineering (CAINE-2011), Nov 16-18, 2011 Honolulu, Hawaii, USA.
- ❖ **Yousef A. Alotaibi** and Sulaiman S. AlDahri, "Investigating VOTs of Arabic Stops /b, k/ with Comparisons to other Languages", The 2011 4th International Congress on Image and Signal Processing (CISP-BMEI 2011), pp. 2439-2444, Oct. 15-17, 2011, Shanghai, China.
- ❖ **Yousef Ajami Alotaibi**, "Experiments on ANN Based ASR Systems Using Limited Arabic Vocabulary", Soft Computing Models in Industrial and Environmental Applications, 6th International Conference SOCO, Salamanca, Spain Aril 6-8, 2011, Advances in Intelligent and Soft Computing, 2011, Volume 87/2011, 453-463, DOI: 10.1007/978-3-642-19644-7_48.
- ❖ Sulaiman S. AlDahri, **Yousef A. Alotaibi**, "A Crosslanguage Survey of VOT Values for Stops (/d/, /t/)" The 2010 IEEE International Conference on Intelligent Computing and Intelligent Systems (ICIS2010), V. 3, pp. ٣٣٤-٣٣٨, Oct. 29-31, 2010, Xiamen, China.
- ❖ Sulaiman S. AlDahri, **Yousef A. Alotaibi**, "Phonetic Investigation of MSA Arabic Stops (/t, d/)", The 2010 3rd International Congress on Image and Signal Processing (CISP 2010), pp. 3524-3527, Oct. 16-18, 2010, Yantai, China.



- ❖ Majed K. Almanjoomi, **Yousef A. Alotaibi**, “Analysing Vocal Tract Area Function while Uttering Stops (/t, tʔ/) in MSA Arabic”, The 2010 3rd International Congress on Image and Signal Processing (CISP 2010), Oct. 16-18, 2010, pp. 3500-3504, Yantai, China.
- ❖ Yousef A. Alotaibi and Ali H. Meftah, “Comparative evaluation of two Arabic speech corpora”, The 2010 International Conference on Natural Language Processing and Knowledge Engineering (NLP-KE), pp. 1 – 5, Aug. 21-23, 2010, Beijing, China.
- ❖ Mubarak O. AlQahtani, Ghulam Muhammad, and **Yousef Ajami Alotaibi**, “Environment Sound Recognition using Zero Crossing Features and MPEG-7”, Proc. the 3rd International Conference on the Applications of Web Information and Digital Technologies (ICADIWT 2010), Turkey, July 2010.
- ❖ Mansour Alsulaiman, Awais Mahmood, Ghulam Muhammad, Muhammad A. Bencherif, and **Yousef A. Alotaibi**, “A Technique to Overcome the Problem of Small Size Database for Automatic Speaker Recognition”, Proc. The 5th International Conference on Digital Information Management (ICDIM 2010), Lakehead University, Thunder Bay, Canada, July 05-08, 2010.
- ❖ Sulaiman S. Al-Dahri, Majed K. Almanjoomi, Yasser M. Seddiq, Saud N. Al-Otaibi, **Yousef A. Alotaibi**, Is it a Specific Vocal Tract Shape in Order to Pronounce Emphatics?, The 7th IEEE, IET International Symposium on Communication Systems, Network & Digital Signal Processing (CSNDSP'10), pp.1-4, 21-23 July 2010, Newcastle, U.K.
- ❖ Ghulam Muhammad, **Yousef A. Alotaibi**, Mansour Alsulaiman, and Mohammad Nurul Huda, “Environment Recognition Using Selected MPEG-7 Audio Features and Mel-Frequency Cepstral Coefficients”, Proc. the 5th International Conference on Digital Telecommunications (ICDT10), Greece, June 13-19, 2010.
- ❖ **Yousef Ajami Alotaibi**, Mansour Alghamdi, Fahad Alotaiby, “Speech Recognition System of Arabic Alphabet based on a Telephony Arabic Corpus”, The International Conference on Image and Signal Processing 2010 (ICISP 2010), June 30 - July 2, Trois-Rivières, Québec, Canada.
- ❖ **Yousef Ajami Alotaibi**, Sid-Ahmed Selouani, “Investigating the Adaptation of Arabic Speech Recognition Systems to Foreign Accented Speakers”, The 10th International Conference on Information Science, Signal Processing and their Applications (ISSPA'10), pp. 646-649, May 10-13, 2010, Kuala Lumpur.,
- ❖ **Yousef Ajami Alotaibi**, “Is Phoneme Level Better than Word Level for HMM Models in Limited Vocabulary ASR Systems?”, The International Conference on Information Technology - New Generations (ITNG2010), pp.332-337, Las Vegas, USA, April 12-14, 2010.
- ❖ **Yousef A. Alotaibi**, Amir Hussain, “Analyzing Arabic vowels ASR system errors” 3rd COST 2102 INTERNATIONAL TRAINING SCHOOL: Toward Autonomous, Adaptive, and Context-Aware Multimodal Interfaces: Theoretical and Practical Issues, March 15 – 19, 2010, Caserta, Italy
- ❖ Ghulam Muhammad, **Yousuf A. Alotaibi**, and Mohammad Nurul Huda, "Automatic Speech Recognition for Bangla Digits," The 12th International Conference on Computer and Information Technology 2009 (ICCIT2009), Bangladesh, pp. 379-383, December 2009. (IEEE Xplore)
- ❖ Mansour Alsulaiman, Ghulam Muhammad, **Yousef Alotaibi**, Awais mahmood, and Mohamed A. Bencherif, "Building a speaker recognition system with one sample," The 2nd International Symposium on Computer Science and Computational Technology (ISCSCCT 09), Huangshan, P. R. China, pp. 330-334, 26-28, Dec. 2009.
- ❖ **Yousef Ajami Alotaibi** and Amir Hussain, “Speech Recognition System and Formant based Analysis of Spoken Arabic Vowels”, The 2009 International Conference on Signal Processing (SIP'09), December 10-12, 2009, Jeju Island, Korea.
- ❖ Mansour Alsulaiman, Ghulam Muhammad, **Yousef A. Alotaibi**, Awais Mahmood, and Mohamed Abdelkader Bencherif, Building a Speaker Recognition System with one Sample, Proceedings of the Second Symposium International Computer Science and Computational Technology (ISCSCCT '09), Huangshan, P. R. China, 26-28, Dec. 2009, pp. 330-334
- ❖ Mubark Obaid AlQahtany, **Yousef Ajami Alotaibi**, Sid-Ahmed Selouani, “Analyzing the Seventh Vowel of Classical Arabic”, The 2009 IEEE International Conference on Natural Language Processing and Knowledge Engineering (IEEE NLP-KE'09), Sep. 24 – 27, 2009, Dalian, China.



- ❖ **Yousef Ajami Alotaibi** and Amir Hussain, “Formant Based Analysis of Spoken Arabic Vowels”, BioID_MultiComm '09: Joint COST 2101 & 2102 International Conference on Biometric ID Management and Multimodal Communication September 16-18, 2009, Madrid, Spain.
- ❖ **Yousef Ajami Alotaibi**, Khondaker Abdullah-Al-Mamun, Ghulam Muhammad, “Noise Effect on Arabic Alphadigits in Automatic Speech Recognition”, IPCV'09 - The 2009 International Conference on Image Processing, Computer Vision, and Pattern Recognition, Las Vegas, Nevada, USA, July 13-16, 2009.
- ❖ Suliman S . Al-Dahri, Youssaf H. Al-Jassar, **Yousef A. Alotaibi**, Mansour M. Alsulaiman, Khondaker Abdullah-Al-Mamun, “A Word-Dependent Automatic Arabic Speaker Identification System”, The 8th IEEE International Symposium on Signal Processing and Information Technology, ISSPIT 2008, pp. 198-202, 2008, 16-19 December, 2008, Sarajevo, Bosnia.
- ❖ **Yousef A. Alotaibi**, Khondaker Abdullah-Al-Mamun, and Ghulam Muhammad, “Study on Unique Pharyngeal and Uvular Consonants in Foreign Accented Arabic”, INTERSPEECH 2008, pp. 751-754, Brisbane, Australia, 22-26 September 2008.
- ❖ **Yousef Ajami Alotaibi**, Mansour Alghamdi, Fahad Alotaiby, “Speech Recognition System of Arabic Digits based on A Telephony Arabic Corpus”, The 2008 International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV'08), Las Vegas, July 14-17, 2008.
- ❖ **Yousef Ajami Alotaibi**, Mansour Alghamdi, Fahad Alotaiby, “Using A Telephony Saudi Accented Arabic Corpus in Automatic Recognition of Spoken Arabic Digits”, 4th International Symposium on Image/Video Communications over fixed and mobile networks (ISIVC '08), Bilbao - Spain, July 9-11th, 2008.
- ❖ **Yousef A. Alotaibi**, “Recognizing and Investigating Spoken Arabic Alphabet,” International Symposium on Signal Processing and Information Technology- ISSPIT'07, Cairo, Egypt, Dec. 15-18, 2007.
- ❖ Sid-Ahmed Selouani, **Yousef Ajami Alotaibi**, “Investigating Automatic Recognition of Non-Native Arabic Speech”, IEEE conference on Innovations in Information Technology, pp. 451-455, Dubai, UAE, Nov. 18-20, 2007.
- ❖ **Yousef A. Alotaibi**, “Spoken Arabic Alphanumeric Recognition System Based on HMM” The 5th Asian Pacific Conference on Speech, Language and Hearing, Brisbane, Australia, July 9-13, 2007. (*Summary only*)
- ❖ **Yousef Ajami Alotaibi**, “Spoken Arabic Digits Recognizer Using Recurrent Neural Networks,” International Symposium on Signal Processing and Information Technology- ISSPIT, pp. 195-199, Rome, Italy, Dec. 18-21, 2004.
- ❖ **Yousef Ajami Alotaibi**, “Analyzing Arabic Digit Recognizer Errors Using Spectrograms,” 7th International Conference on Signal Processing (ICSP04), pp. 646-650, Aug. 31-Sept 4, 2004, Beijing, China.
- ❖ **Yousef Ajami Alotaibi**, “High Performance Arabic Digits Recognizer Using Neural Networks,” The 2003 International Joint Conference on Neural Networks -IJCNN2003, pp. 670-674, Portland, Oregon, July 20-24, 2003.
- ❖ **Yousef Ajami Alotaibi**, “Arabic Phonemes and Speech Recognition,” The 2nd IEEE International Symposium on Signal Processing and Information Technology, Marrakech, Morocco, December 18-21, 2002.
- ❖ **Yousef Ajami Alotaibi**, M. Shahsavari “Isolated Speech Recognition of Unique Arabic Sounds with Several Distance Measures,” IASTED/IEEE Signal and Image processing (SIP-97), December 1997, New Orleans U.S.A.
- ❖ **Yousef Ajami Alotaibi**, M. Shahsavari “Studying Arabic Pharyngeal and Emphatic Sounds in Speech Recognition Problem,” The 8th International Conference on Signal Processing Applications & Technology (ICSPAT/DSP'97), September 1997, San Diego USA.
- ❖ **Yousef Ajami Alotaibi**, M. Shahsavari “Arabic Pharyngeal and Emphatic Sounds in Speech Recognition,” DSP Scandinavia'97, June 1997, Stockholm Sweden.

