



Abdelaziz A. Abdelhamid

Curriculum Vitae

"Learning is the knowledge of that which is not generally known to others." – William Hazlitt

Info

Address 159B, Street 10, Fifth Settlement, New Cairo, Egypt

Marital Married, has two kids

Education

2010-2014 **PhD Degree in Electrical Engineering**, *Auckland University*, Auckland, NZ.

2005-2009 **Master Degree in Computer Science**, *Ain Shams University*, Cairo, Egypt.

1997-2001 **Bachelor Degree in Computer Science**, *Ain Shams University*, Cairo, Egypt.

Experience

Accademic

2014-Present **Assistant Professor**, *Ain Shams University*, Cairo, Egypt.

2009-2010 **Teaching Assistant**, *Ain Shams University*, Cairo, Egypt.

2003-2009 **Instructor**, *Ain Shams University*, Cairo, Egypt.

Working

2010-2012 **SW Consultant**, *Fercon*, Cairo, Egypt.

2005-2006 **Delphi Developer**, *ArabSoft*, Cairo, Egypt.

2003-2005 **Oracle Developer**, *OSOS*, Cairo, Egypt.

Taught Courses

2016-2017 Digital Design, High Performance Computing, Internet Programming, Web Engineering, Image processing, Compiler design, Object oriented programming, Multimedia processing

2015-2016 Software design patterns, Image processing, Compiler design, Object oriented programming, Multimedia Processing, digital design

2014-2015 Pattern recognition, Image processing, Speech processing, Compiler design, Object oriented programming, Neural networks, Distributed systems, Multimedia processing

Assistant Professor – Computer Science, Ain Shams University

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2013-2014 Structured programming, Object oriented programming, Neural networks
 2012-2013 Object oriented programming, Speech processing
 2011-2012 Software engineering, Speech processing
 2010-2011 Object oriented programming, Speech processing
 2009-2010 Compiler design, Theory of computation
 2008-2009 Compiler design, Theory of computation
 2007-2008 Data structure, Theory of computation
 2006-2007 Physics, Math
 2005-2006 Introduction to computers, Compiler design

Grants and Awards

Grant HealthBots grant in human-robot-interaction, New Zealand (NZ), 2010
 Award Best student paper award, ICSR, China, 2012

Scientific Research

Research Research interests include: Speech processing, Discriminative training, and Lattice rescoring

Book Chapters

- Abdelaziz A. Abdelhamid, Waleed H. Abdulla, Bruce A. MacDonald: RoboASR: A Dynamic Speech Recognition System for Service Robots. Social Robotics, Edited by Ge, Shuzhi-Sam and Khatib, Oussama and Cabibihan, John-John and Simmons, Reid and Williams, Mary-Anne, 10/2012: pages 485-495; Springer Berlin Heidelberg., ISBN: 9783642341021, DOI:10.1007/978-3-642-34103-8_49

Journal Publications

- Mona Abdelazim, Abdelaziz Abdelhamid, Nagwa Badr, Fahmy Tolba: Large Vocabulary Arabic Continuous Speech Recognition Using Tied States Acoustic Models. Asian Journal of Information Technology. (Accepted on December 10, 2016)
- Yassmin Abdallah, Abdelaziz Abdelhamid, Taha Elarif, Abdel-Badeeh M. Salem: Intelligent Techniques in Medical Volume Visualization. Procedia Computer Science 12/2015; 65:546-555., DOI:10.1016/j.procs.2015.09.129
- Abdelaziz A Abdelhamid, Waleed H. Abdulla: Joint optimization on decoding graphs using minimum classification error criterion. APSIPA Transactions on Signal and Information Processing 01/2014; 3., DOI:10.1017/ATSIP.2014.5
- T. M. Nazmy, M. E. Gadallah, A. A. Abdelhamid: A Novel Method for Arabic Consonant/Vowel Segmentation Using Wavelet Transform.

- Conference Proceedings
- Mona Abdelazim, Abdelaziz Abdelhamid, Nagwa Badr, Fahmy Tolba: Tree-Based HMM State Tying for Arabic Continuous Speech Recognition. International Conference on Advanced Intelligent Systems and Informatics, 2016 (pp. 96-103). Springer International Publishing.
 - M. Monir, M. Hashim, AbdelAziz AbdelHamid, S. El-Horbaty: Trust management in cloud computing: A survey, 2015. IEEE Seventh International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, 2015, pp. 231-242. doi: 10.1109/IntelCIS.2015.7397227
 - Yassmin Abdallah, Abdelaziz Abdelhamid, Taha Elarif, Abdel-Badeeh M. Salem: Comparison between OpenGL ES and metal API in medical volume visualisation. 2015 IEEE Seventh International Conference on Intelligent Computing and Information Systems (ICICIS); 12/2015, DOI:10.1109/IntelCIS.2015.7397213
 - Abdelaziz A Abdelhamid, Waleed H Abdulla, Bruce A Macdonald: On the robustness of tiny decoding graphs for voice-based robotic interaction. IEEE Conference on Robotics, Automation, and Cybernetics; 11/2013, DOI:10.1109/RAM.2013.6758581
 - Abdelaziz A Abdelhamid, Waleed H Abdulla: Joint Discriminative Learning of Acoustic and Language Models on Decoding Graphs. Asia-Pacific Signal and Information Processing Association (APSIPA); 11/2013, DOI:10.1109/APSIPA.2013.6694237
 - Abdelaziz A Abdelhamid, Waleed H Abdulla, Bruce A Macdonald: SPIDER: A Continuous Speech Light Decoder. Asia-Pacific Signal and Information Processing Association (APSIPA); 11/2013
 - Abdelaziz A Abdelhamid, Waleed H Abdulla: UML-Based Robotic Speech Recognition Development: A Case Study. the international APSIPA conference, Taiwan; 11/2013, DOI:10.1109/APSIPA.2013.6694257
 - Abdelaziz A Abdelhamid, Waleed H Abdulla: Optimization on Decoding Graphs Using Soft Margin Estimation. Asia-Pacific Signal and Information Processing Association (APSIPA); 11/2013
 - Abdelaziz A. Abdelhamid, Waleed H. Abdulla: Optimization on decoding graphs using soft margin estimation. Signal and Information Processing Association Annual Summit and Conference (APSIPA), 2013 Asia-Pacific; 10/2013, DOI:10.1109/APSIPA.2013.6694226
 - Abdelaziz A. Abdelhamid, Waleed H. Abdulla, Bruce A. MacDonald: SPIDER: A continuous speech light decoder. Signal and Information Processing Association Annual Summit and Conference (APSIPA), 2013 Asia-Pacific; 10/2013, DOI:10.1109/APSIPA.2013.6694217
 - Abdelaziz A Abdelhamid, Waleed H Abdulla: On the Robustness of Joint Optimization on Transducer-based Decoding Graphs. IEEE TENCON; 04/2013
 - Abdelaziz A. Abdelhamid, Waleed H. Abdulla: On the robustness of joint optimization on transducer-based decoding graphs. TENCON Spring Conference, 2013 IEEE; 04/2013, DOI:10.1109/TENCONSpring.2013.6584472
 - Abdelaziz A Abdelhamid, Waleed H Abdulla: Speech Decoding Using Lattice Rescoring. APSIPA Letters; 03/2013
 - Abdelaziz A Abdelhamid, Waleed H Abdulla: Discriminative Training of Context-Dependent Phones on WFST-based Decoding Graphs. International Conference on Communications, Signal Processing, and their Applications (ICCSPA), 2013; 02/2013, DOI:10.1109/ICCSPA.2013.6487326
 - Abdelaziz A. Abdelhamid, Waleed H. Abdulla: Optimizing the parameters of WFST-based decoding graphs using soft margin estimation. Communications, Signal Processing, and their Applications (ICCSPA), 2013 1st International Conference on; 02/2013, DOI:10.1109/ICCSPA.2013.6487329
 - Abdelaziz A. Abdelhamid: WFST-based Large Vocabulary Continuous Speech Decoder for Service Robots. Imaging and Signal Processing in Health Care and Technology; 01/2012, DOI:10.2316/P.2012.771-009
 - A A Abdelhamid, W H Abdulla: Optimizing the parameters of decoding graphs using new log-based MCE. Signal Information Processing Association Annual Summit and Conference (APSIPA ASC), 2012 Asia-Pacific; 01/2012

Computer Skills

Languages C#, C, C++, Java, JavaScript, SQL, PL/SQL, PHP, ASP.NET, Python, Perl, L^AT_EX, OpenCL, OpenMP, CUDA, pThreads

Platforms Windows, Windows Server, Linux DB Oracle, MySQL, MSSQL

Tools VS2015, Matlab2014, Eclipse IDE, Netbeans IDE, SVN, Direct3D 11

Languages

Self-assessment (C2 maximum evaluation)

		Comprehension		Speaking		Writing
		Listening	Reading	Interaction	Production	
Arabic	Mother Tongue	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>
English	Advanced	<i>C1</i>	<i>C1</i>	<i>C1</i>	<i>C1</i>	<i>C1</i>
French	Basic	<i>B1</i>	<i>B1</i>	<i>B1</i>	<i>B1</i>	<i>B1</i>

Interests and Hobbies

I love all the sports but I prefer Basketball and Ping Pong. I enjoy reading technical and classic literature books but I don't mind psychology and novels either. I love fishing and diving even if I don't practice really often these activities.