
Hany Ahmed Sayed Mansour

45B, District 13, First neighboring, Elsheikh Zayed
Giza 12593, Egypt

Mobile: (+20) 114-430-8495

Email: hanyahmed@rdi-eg.com

LinkedIn: [Hany Ahmed](#)

PROFESSIONAL EXPERIENCE

June, 2017 – till present

Research and Development Department Manager:

The Engineering Company for Digital Systems Development (RDI)
www.rdi-eg.com

August, 2014 – June, 2017

Research team leader: The Engineering Company for Digital Systems Development

www.rdi-eg.com

August, 2013 – August, 2014

Senior Machine Learning Researcher: The Engineering Company for Digital Systems Development

www.rdi-eg.com

September, 2010 – August, 2013

Research Assistant:

American University in Cairo (AUC)
School of Sciences and Engineering (SSE)
Electronics and Communications Department
www.aucegypt.edu

EDUCATION

2018 - till present

Ph.D. in Electronics and Communications Engineering
Department of Electronics and Communications Engineering,
Faculty of Engineering, Cairo University.

2013-2016

Master of Science in Electronics and Communications Engineering
Department of Electronics and Communications Engineering,
Faculty of Engineering, Cairo University.

2005-2010

Bachelor of Electronics and Communications Engineering
Department of Electronics and Communications Engineering,
Faculty of Engineering, Cairo University.

PUBLICATIONS

Book Chapter

Sherif Abdel Azeem, Hesham M. Eraqi and Hany Ahmed. Springer, *Guide to OCR for Arabic Scripts: On-line Arabic Handwritten Words Recognition based on HMM and Combination of On-line and Off-line Features*. Berlin: Springer, 2012.

International Journals

Abdallah, Mustafa, Ashraf Mahgoub, Hany Ahmed, and Somali Chaterji. **Athena: Automated tuning of k-mer based Genomic error correction Algorithms using Language Models**. Nature Scientific reports 9, no. 1 (2019): 1-13.

Hany Ahmed and sherif abdel Azeem. *Effective technique for the recognition of offline Arabic handwritten words using hidden Markov models*. International Journal on Document Analysis and Recognition (IJ DAR), February 2013.

International Conference Papers

1. Hany Ahmed, Mohamed Elaraby, Abdullah M. Moussa, Sherif M. Abdou and Mohsen Rashwan. **An Unsupervised Speaker Clustering Technique based on SOM and I-vectors for Speech Recognition Systems**. In proceedings of WANLP 2017 (co-located with EACL 2017).
2. Ahmed Magooda, Amr M. Sayed, Ashraf Y. Mahgoub, Hany Ahmed, Mohsen Rashwan, Hazem Raafat, Eslam Kamal and Ahmad A. Al Sallab. **RDI_Team at SemEval-2016 Task 3: RDI Unsupervised Framework for Text Ranking**. In proceedings of SemEval-2016, San Diego, California, June 16-17, 2016.
3. Mohamed Fawzi, Mohsen A. Rashwan, Hany Ahmed, shaimaa Samir, Sherif M. Abdou, Hassanin M. Al Barhamtoshy, and Kamal M. Jambi. **Rectification of Camera Captured Document Images for Camera - Based OCR Technology**. In proceedings of 13th International Conference on Document Analysis and Recognition(ICDAR), CBDAR Workshop 2015.
4. Sherif Abdel Azeem and Hany Ahmed. **Combining Online and Offline Systems for Arabic Handwriting Recognition**. In proceedings of the 21st International Conference on Pattern Recognition(ICPR2012),November 2012, Tsukuba International Congress Center, Tsukuba Science City, Japan. IEEE Computer Society.
5. Sherif Abdel Azeem and Hany Ahmed. **Off-Line Arabic Handwriting Recognition system based on concavity features and HMM classifier**. In proceedings of the 21st International Conference on Pattern Recognition(ICPR2012),Tsukuba International Congress Center, November 2012, Tsukuba Science City, Japan. IEEE Computer Society.
6. Hany Ahmed and Sherif Abdel Azeem. **Online Arabic Handwritten Digits Recognition**. In proceedings of the 11th International Conference on Frontiers in Handwriting Recognition (ICFHR 2012),September 2012, Bari, Italy. IEEE Computer Society.
7. Sherif Abdel Azeem and Hany Ahmed. **Effective Technique for the Recognition of Writer Independent Off-line Handwritten Arabic Words**. In proceedings of the 11th International

Conference on Frontiers in Handwriting Recognition (ICFHR 2012), September 2012, Bari, Italy. IEEE Computer Society.

8. Sherif Abdel Azeem and Hany Ahmed. *On-line Arabic Handwriting Recognition System based on HMM*. In proceedings of the 11th International Conference on Document Analysis and Recognition (ICDAR2011), Beijing, China. IEEE Computer Society.
9. Sherif Abdel Azeem and Hany Ahmed. *Recognition of Segmented Online Arabic Handwritten Characters of the ADAB Database*. In proceedings of the 12th International Conference on Machine Learning and Applications (ICMLA2011), Hawaii, USA, IEEE Computer Society.

CONFERENCES

- Attended the 13th International Conference on Frontiers in Handwriting Recognition 2012, Bari, Italy.
- Attended the International Conference on Machine Learning and Applications 2011, HAWAII, USA.

RELEVANT RESEARCH EXPERIENCE & PROJECTS

- 2018-2019** **Kateb:** www.rdi-kateb.com, Arabic Automatic Speech Recognition
- 2019** **Hafss:** www.rdi-hafss.com, Computer aided pronunciation/recitation learning for Quran using speech recognition techniques.
- 2018-2019** **Araa:** www.rdi-araa.com, Sentiment analysis for Arabic social media.
- 2018-2019** **Sotoor:** www.rdi-sotoor.com, Optical Character Recognition software package that converts scanned images of Arabic documents into a fully editable and searchable text file
- 2018** **Voice conversion using parallel and non-parallel data**
- 2017-2018** **Arabic Large Vocabulary Speech Recognition system for call-centers**
- 2017-2018** **Sentiment Analysis for Social Media**
- 2016-2018** **Historical Arabic Handwritten Books Recognition**
- 2016-2018** **Arabic Large Vocabulary Speech Recognition system for broadcast news and shows**
- 2015-2018** **Arabic Typewritten Recognition for computer-printed Books/Papers**
- 2015-2016** **Labeeb - Automatic Arabic Speech Recognition for deaf people**
- 2015** **Historical Arabic Typewritten Books Recognition**
- 2013-2014** **Online Arabic Handwriting Recognition System for smart phones**
- 2010-2013** **Proposed novel research techniques for Arabic Handwriting Recognition**
- 2010** **AraBot- The Egyptian Waiter Robot**
A moving robot at (ex: restaurant, cafe ...) which is able to recognize customer's speech (In Arabic language) and interact with what they are telling.

HONORS AND AWARDS

The Multi-Genre Broadcast (MGB5) Challenge- Arabic Track

MGB-2019 Challenge (<https://arabicspeech.org/mgb5>)

-Ranked first in the international Multi-Genre Broadcast Challenge.

RASM2019

ICDAR2019 Competition on Recognition of Historical Arabic Scientific Manuscripts

(<https://www.primaresearch.org/RASM2019/results>)

-Ranked first in RASM-2019 Challenge.

RASM2018

ICFHR2018 Competition on Recognition of Historical Arabic Scientific Manuscripts

(<https://www.primaresearch.org/RASM2018/results>)

-Ranked first in RASM-2018 Challenge.

The Multi-Genre Broadcast (MGB3) Challenge- Arabic Track

MGB-2017 Challenge (<http://www.mgb-challenge.org/arabic.html>)

-Ranked third in the international Multi-Genre Broadcast Challenge.

The Multi-Genre Broadcast (MGB2) Challenge- Arabic Track

MGB-2016 Challenge (<http://www.mgb-challenge.org/arabic.html>)

-Ranked sixth in the international Multi-Genre Broadcast Challenge.

The international Semantic Evaluation (SemEval) Competition

SemEval-2016 (10th International Workshop on Semantic Evaluation, SemEval '16, San Diego, CA)

-Ranked third in the semantic evaluation competition, SemEval- 2016: Task 3, unsupervised framework for text ranking.

The international online handwritten Arabic word recognition systems competition

ICDAR `11 (11th International Conference on Document Analysis and Recognition, 2011)

-Ranked second in the online handwritten Arabic word recognition systems competition.

EED9 Best Project

Egyptian Engineering Day 2010 (EED9)

-Ranked first in the Egyptian Engineering Day Competition.

SAMSUNG Real Dreams Award (SRDA)

SAMSUNG

-SRDA 2010 Winner for the best project.

Young Innovators Award (YIA)

Nahdet El Mahrousa Society 2010

-YIA 2010 winner for the best project.