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Research Associate
Qatar Computing Research Institute QCRI
Arabic Language Technologies

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Biography

Mohamed Eldesouki is a research associate and a software engineer with senior Researching and Developing skills and a wide technical and academic background in the fields of Arabic Language Technologies (ALT) and Machine Learning (ML) with a broad experience covering a diverse set of software development tools, languages and methodologies, gathered throughout almost 11 years of experience.

Mohamed has participated in designing, implementing and maintaining of NLP-related project such as Search Engines, Content-based Recommendation Systems, Auto-complete and correction for mobile devices, and Intelligent Tutoring Systems (ITS) for both Arabic and English content .

With a strong academic foundation in Information Retrieval (IR) and Information Extraction (IE) gained through the conducted research activities and studies of the MASTER'S DEGREE and deep linguistic analysis, Natural language Understanding NLU and Machine comprehension of text currently through his work at Qatar Computing Research Institute (QCRI).

Research Interests

- Natural Language Processing
- Machine Learning
- Information Retrieval
- Machine Com-prehension of Text
- Data Discovery and Analytics

Experience

Research Associate

Qatar Computing Research Institute (QCRI), Doha, Qatar

DEc 2015 - Present

- **Senior Research Software Engineer**

OMS Company, Cairo, Egypt

Jan 2015 - Dec 2015

- **Senior Research Software Engineer**

Taya IT Company, Cairo, Egypt

Aug 2013 - Dec 2014

- **Research Engineer**

MGD Company, Cairo, Egypt

Jul 2012 - Aug 2013

- **Research Assistant**

Institute of Statistical Studies and Research (ISSR), Cairo University, Cairo, Egypt

Jul 2009 - Jun 2012

Education

Master (M.Sc) in Computer Science

Cairo University; Giza, Egypt

2012

- **Bachelor of Computers and Information**

Cairo University; Giza, Egypt

2003

Selected Publications

- **Salvatore Romeo, Giovanni Da San Martino, Yonatan Belinkov, Alberto Barrón-Ceděno, Mohamed Eldesouki, Kareem Darwish, Hamdy Mubarak, James Glass, and Alessandro Moschitti**

Language Processing and Learning Models for Community Question Answering in Arabic, Information Processing & Management, Volume 56, Issue 2, March 2019, Pages 274-290. [ARTICLE]

2019

- **Mohamed Eldesouki, Suwon Shon, and Ahmed Ali, James Glass**

QCRI-MITLive Arabic Dialect Identification System, QCRI - MIT CSAIL Annual Meeting Qatar National Convention Centre March 27-28, 2018. [POSTER]

2018

- **Mohamed Eldesouki, Suwon Shon, and Ahmed Ali**

QCRI-MIT Live Arabic Dialect Identification System, ICASSP, Calgary, Canada. [DEMO]

2018

- **Kareem Darwish, Hamdy Mubarak, Mohamed Eldesouki, Ahmed Abdelali, Younes Samih, Randah Alharbi, Mohammed Attia, Walid Magdy, and Laura Kallmeyer**

Multi-Dialect Arabic POS Tagging: A CRF Approach, In 11th edition of the Language Resources and Evaluation Conference (LREC), 7-12 May 2018, Miyazaki (Japan).

2018

- **Younes Samih, Mohamed Eldesouki, Mohammed Attia, Kareem Darwish, Ahmed Abdelali, Hamdy Mubarak and Laura Kallmeyer**

Learning from Relatives: Unified Dialectal Arabic Segmentation. In Proceedings of the 21st Conference on Computational Natural Language Learning (CoNLL 2017), Vancouver, Canada, 432-441.

2017

- **Walid Magdy, and Mohamed Eldesouky**

ClassStrength: A Multilingual Tool for Tweets Classification, Proc. of the 2017 IEEE/ACM International Conference on Advances in social networks analysis and mining (ASONAM), Sydney, Australia, 593-596.

2017

- **Mohamed Eldesouki, Younes Samih, Ahmed Abdelali, Mohammed Attia, Hamdy Mubarak, Kareem Darwish and Kallmeyer Laura**

Arabic Multi-Dialect Segmentation: bi-LSTM-CRF vs. SVM, <http://arxiv.org/abs/1708.05891>.

2017

- **Younes Samih, Mohammed Attia, Mohamed Eldesouki, Ahmed Abdelali, Hamdy Mubarak, Laura Kallmeyer and Kareem Darwish**

A Neural Architecture for Dialectal Arabic Segmentation. In Proc. of The 3rd Arabic Natural Language Processing Workshop (WANLP-2017) co-located with EACL 2017, Valencia, Spain, pages 46-54.

2017

- **Kareem Darwish, Hamdy Mubarak, Ahmed Abdelali and Mohamed Eldesouki**

Arabic POS Tagging: Don't Abandon Feature Engineering Just Yet, In Proc. of The 3rd Arabic NLP Workshop (WANLP-2017) co-located with EACL 2017, Valencia, Spain, P.130.

2017

- **Mohamed Eldesouki, Fahim Dalvi, Hassan Sajjad, and Kareem Darwish**

QCRI@ DSL 2016: Spoken Arabic Dialect Identification Using Textual Features, Proc. of the 3rd Workshop on NLP for Similar Languages, Varieties and Dialects, (VarDial 3), Osaka, Japan, P. 221.

2016

- **Mohamed I. Eldesouki, An Intelligent Agent for Arabic Web Information Retrieval**

Master's Thesis, Cairo University.

2012

- **Mohamed Eldesouki, Waleed Arafa, Kareem Darwish, Mervat H. Gheith**

Rep-representing Arabic Documents Using Controlled Vocabulary Extracted from Wikipedia, InProc. of The 11th Conference on Language Engineering (ESOLEC'11), Cairo, Egypt.

2011

- **Mohamed Eldesouki, Waleed Arafa, Kareem Darwish, Mervat Gheith**

Using Wikipedia for Retrieving Arabic Documents. In Proceedings of Arabic Language Technology International Conference (ALTIC 2011), Alexandria, Egypt.

2011

- **Mohamed I. Eldesouki, Waleed M. Arafa, Kareem M. Darwish**

Stemming techniques of Arabic Language: Comparative Study from the Information Retrieval Perspective, The Egyptian Computer Journal. 36(1):30-49.

2009

Honors and Awards:

- Graduated the first of my class in the Masters program with a final grade of 82%, with a recommendation to complete the PhD.
- I developed an Arabic dialect identification system using features extracted from only the transcripts of a speech recognition system. Using this system, I achieved the FIRST place in accuracy and THIRD place in F1 among 18 participants in the DSL Shared Task 2016 of the VarDial 2016 workshop for Arabic dialect identification [<http://www.aclweb.org/anthology/W16-4801>].
- A "Wikipedian"; an active Wikipedia member who have created and contributed in writing in more than 1800 articles in both Arabic and English Wikipedia projects and Obtained a scholarship to join the Wikimania Conference in Poland in 2010 [<https://ar.wikipedia.org/wiki/%D9%85%D8%B3%D8%AA%D8%AE%D8%AF%D9%85:Disooqi>].

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