Abdullah Alrajeh

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PERSONAL INFORMATION

Nationality: Saudi Arabia • Gender: Male • Languages: Arabic/English

EDUCATION

University of Southampton, UK (2015)

Ph.D., Computer Science, ECS, Faculty of Physical Sciences and Engineering

Thesis: *Large-scale Reordering Models for Statistical Machine Translation*

University of Manchester, UK (2009)

M.Sc., Advanced Computer Science, School of Computer Science

Thesis: *Prediction of Polymorphic Form from Experimental and Theoretical Data*

Courses: Machine Learning • High Performance Computing • Advanced Machine Vision • Advanced Database Management Systems • The Semantic Web: Ontologies and OWL • Computer Animation

King Saud University, Saudi Arabia (2006)

B.Sc., Computer Science, College of Computer and Information Sciences

RESEARCH INTERESTS

machine learning

classification, structured prediction, probabilistic modeling, deep learning

machine translation

phrase-based machine translation, neural machine translation

speech processing

speech recognition, speaker recognition, language identification, speech synthesis

image processing

optical character recognition, object recognition

PROFESSIONAL EXPERIENCE

Assistant Research Professor at the National Center for Artificial intelligence and Big Data Technology-KACST since 2015.

Researcher A at the Computer Research Institute-KACST (2009-2015).

Researcher at the Computer Research Institute-KACST (2006-2009).

TECHNICAL EXPERIENCE

OS Systems:

- Linux (Ubuntu, Debian, CentOS) and Mac

Software and Libraries:

- Moses, Nematus, Marian, Kaldi, Merlin, Mycroft, TensorFlow and OpenCV

Programming Languages:

- C, C++, Java, AWK, Perl, Python, HTML, JavaScript, SQL, PHP and CUDA

Tools:

- LaTeX, MATLAP, GDB, Grid Engine, SLURM, MySQL and Apache Server

PROJECTS

Arabic Virtual Assistant

Arabic Speech Recognition

Hebrew-Arabic Machine Translation

Arabic Text Classification

Arabic Optical Character Recognition

Arabic Optical Braille Recognition

PEER REVIEW

Journal of King Saud University - Computer and Information Sciences

Arabian Journal for Science and Engineering

CONFERENCE COMMITTEES

The 4th Saudi International Conference on Information Technology: Big Data Analysis (November 2016)

The Saudi Arabian High Performance Computing Conference and Exhibition (April 2016)

PUBLICATIONS

Alrajeh, A. (2018) A Recipe for Arabic-English Neural Machine Translation. Computing Research Repository, arXiv:1808.06116.

Alrajeh, A. and Niranjan, M. (2015) Scalable reordering models for SMT based on multiclass SVM. The Prague Bulletin of Mathematical Linguistics.

Alrajeh, A. and Niranjan, M. (2015) Generative and discriminative reordering models for statistical machine translation. In, 8th Saudi Students Conference, UK.

Alrajeh, A. and Niranjan, M. (2014) Bayesian reordering model with feature selection. In, ACL: 9th WMT, USA.

Alrajeh, A. and Niranjan, M. (2014) Large-scale Reordering Model for Statistical Machine Translation using Dual Multinomial Logistic Regression. In, EMNLP, Qatar.

Alrajeh, A., Takeda, A. and Niranjan, M. (2014) Memory-efficient Large-scale Linear Support Vector Machine. In, 7th ICMV, Italy.

Al-Harbi, S, Almuhareb, A, Al-Thubaity , A, Khorsheed, M. S. and **Al-Rajeh, A** (2008) Automatic Arabic Text Classification. In, 9th ICSATD, France.

Althubaity, A., Almuhareb, A., Alharbi, S., **Al-Rajeh, A.** and Khorsheed , M. (2008) KACST Arabic Text Classification Project: Overview and Preliminary Results. In, 9th IBIMA, Morocco.

Al-Salman, A., AlOhali, Y. , AlKanhal, M. and **AlRajih, A.** (2007) An Arabic Optical Braille Recognition System. In, ICTA, Tunisia.