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Majdi Shaker Sawalha

Personal Information

□ Date / Place Of Birth: 18-Apr-1979 Irbid /Jordan

Nationality: JordanianPlace of Residence: Amman, Jordan

Work Address: Computer Information Systems Department, King Abdullah II School

for Information Technology, The University of Jordan, Amman –

11942, Jordan. Tel: +962 6 5355 000 ext: 22619

Education

Nov 2007 to Jan 2012 PhD, University of Leeds, Leeds, UK,

Natural Language Processing Group, School of Computing **Supervisor: Dr. Eric Atwell,** Thesis submission date: Oct-2011

PhD Thesis Title: Open-source Resources and Standards for Arabic Word Structure:

Fine Grained Morphological Analysis of Arabic Text Corpora

M.Sc. in Computer Information Systems, Yarmouk University, Irbid,

Available on: http://etheses.whiterose.ac.uk/2165/

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http://etheses.whiterose.ac.uk/2165/1/Sawalha MSS Computing PhD 2011.pdf

Jordan.

Sep 2001 to Jun 2004

Sep 1997 to Jun 2001 B.Sc. in Computer Science, Yarmouk University, Irbid, Jordan.

July 1997 High School Education, Hitteen Secondary School, Irbid, Jordan.

Work Experiences

The University of Jordan, Jordan

- Feb 2012 to date, **Assistant Professor**, Computer Information Systems Department, The University of Jordan, Amman, Jordan.
- # Feb 2006 to Nov 2007, **Lecturer** Full time, Computer Information Systems Department, The University of Jordan, Amman, Jordan.

The University of Leeds, UK

Apr 2013 to Apr 2015, **Visiting Researcher**, School of Computing, Faculty of Engineering, The University of Leeds, Leeds, UK. UK's Engineering and Physical Sciences Research Council (EPSRC) funded a 2-year project (2013-2015) of about £350K, entitled: "Natural Language Processing Working Together with Arabic and Islamic Studies".

Jun 2011 to Dec 2011, **Research Fellow**, School of Computing and School of Modern Languages and Cultures, The University of Leeds, Leeds, UK. UK's Higher Education Academy (HEA) funded a project entitled: "A Web-as-Corpus approach to populating Wikiversity for teaching about Islam and Muslims in language, linguistics and area studies".

Oman College of Management and Technology, Sultanate of Oman

Oct 2004 to Aug 2005, **Lecturer**, Department of Computer Science, Oman College of Management and Technology, <u>www.omancollege-barka.com.om</u>, Barka, Sultanate of Oman.

Irbid District Electricity Company, Jordan

Oct 2001 to Jul 2004, **Software Developer**, Irbid District Electricity Company Ltd. (IDECO) E-mail: ideco@go.com.jo, Irbid, Jordan,

Conferences and Workshops Organization

- NTIT-2017: New Trends in Information Technology 2017 Conference. 25-27 April 2017, The University of Jordan, Amman, Jordan. http://www.ntit-conf.com
- The Workshop April, 27, 2017. The University of Jordan, Amman, Jordan. http://www.ntit-conf.com/?page=new-trends-in-arabic-computational-and-corpus-linguistics-ntaccl-2017
- **LRE-Rel 2: 2nd Workshop on Language Resource and Evaluation for Religious Texts;** LREC 2014 post-conference workshop 31st May 2014 (Afternoon session); Reykjavik, Iceland, http://www.lrec-conf.org/proceedings/lrec2014/index.html
- A Special Session on **Arabic Natural Language Processing: Algorithms, Resources, Tools, Techniques and Applications**, In conjunction with the First International Conference on Communications, Signal Processing, and their Applications (ICCSPA'13) Sharjah, UAE, February 12-14, 2013 http://www.iccspa-conf.org/
- **LRE-Rel: Language Resource and Evaluation for Religious Texts**; LREC 2012 pre-conference workshop 22 May 2012 (Morning); Istanbul, Turkey, http://www.comp.leeds.ac.uk/arabic/lre-rel.html

Teaching Experience

During my work as an assistant professor at Computer Information Systems Department, I have taught the following courses:

Fall Semester 2018	 [1] Innovative Information Systems – 3rd year undergraduate course. [2] Certified Software (Programming Using Python 3) – 3rd year undergraduate course. [3] Computer Skills for Humanities – 1st year undergraduate course. [4] Basics of Computing – 1st year undergraduate course.
Summer Semester 2018	[1] Artificial Intelligence and Expert Systems – Master's degree course. [2] Artificial Intelligence – 4 th year undergraduate course. [3] Computer Skills for Humanities – 1 st year undergraduate course.
Spring Semester 2018	[1] Artificial Intelligence and Expert Systems – Master's degree course. [2] Artificial Intelligence – 4 th year undergraduate course.

- [3] Innovative Information Systems 3rd year undergraduate course.
- [4] Documentation and Ethics 2nd year undergraduate course.
- [5] Computational Linguistics PhD course Faculty of Foreign Languages

Fall Semester 2017 [1] Artificial Intelligence – 4th year undergraduate course.

- [2] Innovative Information Systems 3rd year undergraduate course.
- [3] Certified Software (Programming Using Python 3) 3rd year undergraduate course.
- [4] Computer Skills for Humanities 1st year undergraduate course.
- [5] Computational Morphology PhD course Faculty of Foreign Languages.

Summer Semester 2017: [1] Compu

- [1] Computer Skills for Humanities 1st year undergraduate course.
- Spring Semester 2017:
- [1] Artificial Intelligence 4th year undergraduate course.
- [2] Computer Skills for Humanities 1st year undergraduate course. [3] Corpus Linguistics – PhD course – Faculty of Foreign Languages
- **Fall Semester 2016:** [1] Innovative Information S
- [1] Innovative Information Systems 3rd year undergraduate course.
 - [2] Computer Skills for Humanities -1st year undergraduate course.
- **Spring Semester 2016:**
- [1] Artificial Intelligence 4th year undergraduate course.
- [2] Computer Skills for Humanities 1^{st} year undergraduate course.
- [3] Remedial Computer Skills 1st year undergraduate course.
- Fall Semester 2015:
- [1] Artificial Intelligence 4th year undergraduate course.
- [2] Documentation and Ethics 2^{nd} year undergraduate course.
- [3] Computer Skills for Humanities 1st year undergraduate course.
- **Summer Semester 2015:**
- [1] Computer Skills for Humanities 1st year undergraduate course.
- **Spring Semester 2015:**
- [1] Artificial Intelligence 4th year undergraduate course.
- [2] Certified Software (Programming Using Python 3) 3rd year
- undergraduate course.
- [3] Documentation and Ethics 2^{nd} year undergraduate course.
- [4] Computer Skills for Humanities 1st year undergraduate course.
- Fall Semester 2014:
- [1] Natural Language Processing Masters Course.
- [2] Artificial Intelligence 4th year undergraduate course.
- [3] Computer Skills for Humanities 1st year undergraduate course.
- **Spring Semester 2014:**
- [1] Documentation and Ethics -2^{nd} year undergraduate course.
- [2] Computer Skills for Humanities 1st year undergraduate course.
- Fall Semester 2013:
- [1] Database Management Systems 3rd year undergraduate course.
- [2] Computer Skills for Humanities 1st year undergraduate course.
- **Spring Semester 2013:**
- [1] Database Management Systems 3rd year undergraduate course.
- [2] Documentation and Ethics 2nd year undergraduate course.
- [3] Computer Skills for Humanities 1st year undergraduate course.
- Fall Semester 2012:
- [1] Database Management Systems 3rd year undergraduate course.
- [2] Computer Skills for Humanities 1st year undergraduate course.
- Summer Semester 2012: Spring Semester 2012:
- [1] Computer Skills for Humanities 1st year undergraduate course.
- [1] Documentation and Ethics 2nd year undergraduate course.
- [2] Computer Skills for Humanities 1st year undergraduate course.

Graduate Students Supervision

- [1] Manal Al-Mayah, "Quranic Arabic WordNet". Department of Computer Information Systems, The University of Jordan, 2015.
- [2] Ala'a Al-Solman, "Prediction of Punctuation Marks for Classical and Modern Standard Arabic Text". Department of Computer Information Systems, The University of Jordan. 2016.
- [3] Khetam Al-Yassin, "Stochastic Approach of Part-of-Speech Tagging for Classical and MSA Arabic Text". Department of Computer Information Systems, The University of Jordan. 2017.
- [4] Nawras Al-Masri, "Spell-Checking and Correction for Arabic Text". Department of Computer Information Systems, The University of Jordan. 2017.
- [5] AbuBakr Baras, "New Arabic WordNet". Department of Computer Information Systems, The University of Jordan. 2017.
- [6] Ola Moneer, "Predicting Cancer Survival Rate: A Comparative Study", Department of Computer Information Systems, The University of Jordan. 2018.
- [7] Nazik Hassounah, "Deep Learning for Predicting Survivability for Leukemia Patients on SEER Data", Department of Computer Information Systems, The University of Jordan. 2018.
- [8] Motasem Yakhola, "Constructing an Arabic Morphological Lexicon", Department of Computer Information Systems, The University of Jordan, 2018.

External M.sc. Theses – Examinations Committee Membership

- [3] Al-Khalaylah, Enas (2018) "تقييم المحللات النحوية والصرفية: دراسة في ضوء اللسانيات الحاسوبية" (2018) "Evaluating of Morphological and Syntactic Analyzers: A study in the light of Computational Linguistics", M.A thesis, Arabic Language Department, The Hashemite University.
- [2] Al-Rabab'ah, Zein A. (2016) "Thesaurus-Based Query Expansion for the Retrieval of Arabic Medical Text". M.sc. Thesis, Yarmouk University, Irbid, Jordan.
- [1] Shmaisani, Hashem A. J. (2013) "Using Semantic Approaches to Answer Questions from the Holy Quran". M.sc. Thesis, Philadelphia University, Amman, Jordan.

Internal M.sc Theses – Examination Committee Membership

- [7] Al-Omari, Laith (2018) Automatic Speech Emotions Recognition for Arabic Language. M.sc. Thesis, The University of Jordan, Amman, Jordan.
- [6] Al-latayfah, Marwa (2018) "Improving Software Defects Prediction using Feature Selection and Data Mining Techniques" M.sc. Thesis, The University of Jordan, Amman, Jordan.
- [5] Al-Zou'bi, Mohammed (2017). Hybrid Modeling of Modern Standard and Dialectal Arabic for Automatic Continuous Speech Recognition. M.sc. Thesis, The University of Jordan, Amman, Jordan.
- [4] Abu Sukhon, Rasha (2016) "The Design and Implementation of A Conversational Agent for Arabic Learning Environment", M.sc. Thesis, The University of Jordan, Amman, Jordan.
- [3] Dawood, Batool (2015). "The Design and Implementation of an Arabic Question Answering System Based on the Universal Network Language (UNL)". M.sc. Thesis, The University of Jordan, Amman, Jordan.
- [2] Shdaifat, Aala' (2015). "Towards Multithreading Sliding Window to Improve Exact Pattern Matching in Searching Text Documents". M.sc. Thesis, The University of Jordan, Amman, Jordan.
- [1] Hmmad, Safia (2015). "Automatic continuous Speech Recognition Using Sub-Words Approach for Arabic Language". M.sc. Thesis, The University of Jordan, Amman, Jordan.

Funded Research Projects

- Al-Shdaifat, Abdullah (PI); **Sawalha, Majdi** (Co-I); Yagi, Sane (Co-I); Al-Qudah, Mohammed (Co-I) (2017 2019) "Constructing the Arabic E-Dictionary" Funded by Scientific Research Fund, Ministry of Higher Education and Scientific Research in Jordan. Project's is JOD 71,555.
- Hammo, Bassam (PI); **Sawalha, Majdi (Co-I)**; Yagi, Sane (Co-I), Al-Shdaifat, Abdullah (Co-I) (2017-2020) "Building a Syntactic Parser for Arabic", Funded by Deanship of Academic Research, The University of Jordan. Project's budget is JOD 12,600.
- Kedher, Mohammed Zeki (Pl); Saoudi, Mohammed (Co-l); **Sawalha, Majdi (Co-l**); Ababneh, Sami (Co-l); Hamdan, Yousef (Co-l); Hattab, Mamoun (Co-l) (2017-2018) "Index for Arabic Natural Language Processing Research", Funded by Arabic Language Academy in Jordan. Project's budget is JOD 35,000.
- Awad, Zahra (PI); **Sawalha, Majdi (Co-I)** and Kirner-Ludwig, Monika (Co-I) (2016-2019) "Arab Women in Western Press During Arab Spring: Image and Perception in Germany", Funded by Deanship of Academic Research, The University of Jordan. Project's budget is JOD 9,400.
- Atwell, Eric (PI); Dickins, James (Co-I); Brierley, Claire (Researcher) and **Sawalha, Majdi (Researcher)** (2013-2015) "Natural Language Processing Working Together with Arabic and Islamic Studies" Funded by UK's Engineering and Physical Sciences Research Council (EPSRC). Project's Budget is £350,000.
- Atwell, Eric (PI); Dickins, James (Co-I) and **Sawalha, Majdi (Researcher)** (2011) "A Web-as-Corpus approach to populating Wikiversity for teaching about Islam and Muslims in language, linguistics and area studies". Funded by UK's Higher Education Academy (HEA). Project's Budget is £3,000.

Publications

The full list of publications is found on the following websites:

Google scholar: http://scholar.google.com/citations?user=6LD7HyIAAAAJ&hl=en

Research Gate: https://www.researchgate.net/profile/Majdi-Sawalha

ORCID ID: 0000-0003-4975-6709

ResearcherID: <u>www.researcherid.com</u> - E-1107-2016

Website: http://eacademic.ju.edu.jo/sawalha.majdi/default.aspx

PhD Thesis

Sawalha, MSS (2011). Open-source resources and standards for Arabic word structure analysis:

Fine grained morphological analysis of Arabic text corpora, PhD thesis, School of Computing, University of Leeds.

Conference / Workshop Proceedings Editing

- [1] **Sawalha, Majdi** (2017) New Trends in Information Technology (NTIT-2017) International Conference. 25-27 April 2017, The University of Jordan, Amman, Jordan, http://www.ntit-conf.com
- [2] Brierley, Claire; Sawalha, Majdi; Atwell, Eric (2014) LRE-Rel2: 2nd Language Resources and Evaluation for Religious Texts. LREC 2012 pre-conference workshop 22 May 2012 (Morning); Istanbul, Turkey, <a href="http://www.comp.leeds.ac.uk/eric/lre-rel/
- [3] Atwell, Eric; Brierley, Claire; **Sawalha, Majdi** (2012) **LRE-Rel: Language Resources and Evaluation for Religious Texts.** LREC 2012 pre-conference workshop 22 May 2012 (Morning); Istanbul, Turkey, http://www.comp.leeds.ac.uk/eric/lre-rel/lre-rel/Proceedings.pdf

Journal papers

- [12] **Sawalha, Majdi** (2019) "The Design and Construction of the Traditional Arabic Lexicons Corpus (The TAL-Corpus)", **Modern Applied Science**. Vol. 13, No. 2 (2019) DOI:10.5539/mas.v13n2p95
- [11] Mustafa-Awad, Zahra; **Sawalha, Majdi**; Kerner-Ludwig, Monika and Tabaza, Dua'a (2019-Forthcoming) "Arab women in Western press: Designing news corpora for Arab women in British, American, and German news media during the Arab Spring", **Research in Computing Science**.
- [10] Brierley, Claire; **Sawalha, Majdi**; Islam, Tajul; Dickins, James; Atwell, Eric (2018) "Automatic Extraction of Quranic Lexis Representing Two Different Notions of Linguistic Salience: Keyness and Prosodic Prominence", **Journal of Semitic Studies**, Volume 63, Issue 2, 1 October 2018, Pages 407–456, https://doi.org/10.1093/jss/fgy005
- [09] Sawalha, Majdi; Brierley; Claire, Atwell, Eric and Dickins, James (2017), "Text Analytics and Transcription Technology for Quranic Arabic", International Journal on Islamic Applications in Computer Science And Technology; Vol 5, No 2.
- [08] Hussein, Riyad; **Sawalha, Majdi** (2016) *A Corpus-based Study of Similes in British and American English.* **Arab World English Journal**, Volume 7, Issue 2, June 2016. Pp. 49-60 DOI: https://dx.doi.org/10.24093/awej/vol7no2.4
- [07] Brierley, Claire; **Sawalha, Majdi;** Heselwood, Barry; Atwell, Eric. (2016) *A Verified Arabic-IPA Mapping for Arabic Transcription Technology, Informed by Quranic Recitation, Traditional Arabic Linguistics, and Modern Phonetics.* **Journal of Semitic Studies,** (Spring 2016) 61 (1): 157-186. doi: 10.1093/jss/fgv035. Oxford Journals.

- [06] AlMaayah, Manal; Sawalha, Majdi; Abushariah, Mohammed (2016) Towards an automatic extraction of synonyms for Quranic Arabic WordNet. International Journal of Speech Technology, Volume 19, Issue 2, pp 177–189, June 2016, DOI: 10.1007/s10772-015-9301-9
- [05] Abu Shawar, Bayan; Atwell, Eric; **Sawalha, Majdi** (2014) A Web-as-Corpus approach to populating Wikiversity for teaching information technology modules. **International Journal of Advances** in **Electronics Engineering IJAEE Volume 4, issue 1, Pp. 28-32.**
- [04] **Sawalha, Majdi**; Atwell, Eric (2013). A standard tag set expounding traditional morphological features for Arabic language part-of-speech tagging, **Word Structure** 6 (1), 43-99, Edinburgh University Press.
- [03] **Sawalha, Majdi**; Brierley, Claire; Atwell, Eric (2012). *Prosody Prediction for Arabic via the Open-Source Boundary-Annotated Qur'an Corpus*, **Journal of Speech Sciences** 2 (2), 175-191.
- [02] Kanaan, Ghassan; Hammouri; Awni, Al-Shalabi, Riyad; **Sawalha, Majdi** (2009). *A New Question Answering System for the Arabic Language*. **American Journal of Applied Sciences** 6 (4): 797-805, 2009
- [01] Kanaan, Ghassan., Al-Shalabi, Riyad; **Sawalha, Majdi** (2005). *Improving Arabic Information Retrieval Systems Using Part of Speech Tagging*. **Information Technology Journal** 4(1): 32-37. 2005

Book Chapters

- [1] Brierley, Claire; **Sawalha, Majdi**; El-Farahaty, Hanem (2019-Forthcoming) *Translating sacred sounds:* encoding tajwīd rules in automatically-generated IPA transcriptions of Quranic Arabic.

 Routledge Handbook of Arabic Translation. Hanna, Sameh F.; El-Farahaty, Hanem and Khalifa, A. W. London/New York, Routledge.
- [2] Mustafa-Awad, Zahra; Kerner-Ludwig, Monika and **Sawalha, Majdi** (2019-Forthcoming) *Arab women in Western news discourse during the Arab Spring: Fading stereotypes and emerging images*, in Garzone, Giuliana; Logaldo, Mara; Santuili, Francesca (Eds) <u>Language of Conflicts: Polarisation/Popularisation of Discourse in the Periodical Press. Linguistic Insights Studies in <u>Language & Communication Series</u>, Peter Lang International Academic Publisher.</u>

Conference proceedings

- [30] Abu Elberak, Ola; Alnemer, Loay; **Sawalha, Majdi**; and Alsakran, Jamal (2019-forthcoming) "Predicting Cancer Survivability: a Comparative Study", International Conference on Emerging Internet, Data and Web Technologies (EIDWT-2019), February 26 to February 28, 2019, Higher Colleges of Technology, Fujairah Campus, United Arab Emirates (UAE).
- [29] Mustafa-Awad, Zahra; Kerner-Ludwig, Monika and **Sawalha, Majdi** (2017) "Arab women in news discourse during the Arab Spring: Broken stereotypes and emerging images", Conflict in the Periodical Press: 6th International Conference of the European Society for Periodical Research (ESPRit), IULM (International University of Languages and Media), Milan, Italy. 28-30 June 2017
- [28] Sawalha, Noor and **Sawalha, Majdi** (2017) "A study of Arabic Keyboard Layout", in Proceedings of NTIT-2017: New Trends in Information Technology, The University of Jordan, Amman, Jordan, 25 27 April, 2017
- [27] Yassen, Khetam; **Sawalha, Majdi** and Alzaghoul, Fawaz (2017) "Part-of-Speech Tagging for Classical and MSA Arabic Text Using NLTK", in Proceedings of NTIT-2017: New Trends in Information Technology, The University of Jordan, Amman, Jordan, 25 27 April, 2017.
- [26] Mustafa-Awad, Zahra; **Sawalha, Majdi**; Kerner-Ludwig, Monika and Tabaza, Dua'a (2017) "Arab women in Western press: Designing news corpora for Arab women in British, American, and German news

- media during the Arab Spring" In: proceedings of The 18th International Conference on Computing and Computational Linguistics CICLing 2017, Budapest (Hungry), 17-23 April 2017.
- [25] Mustafa-Awad, Zahra; Kerner-Ludwig, Monika; and **Sawalha, Majdi** (2016) "Arab Women in Western Print Press during the Arab Spring: Image and Perception in Germany" In: proceedings of The International Conference Language, Literature and Culture in Education 2016 (LLCE2016), Venice (Italy), 12 14 July 2016
- [24] Al-Solman, Ala'a; **Sawalha,** Majdi and Yagi, Sane (2015) "Punctuation Marks in Arabic: A Computational Linguistic Approach". In: proceedings of WCIS 2015: Arabic Natural Language Processing: Systems, Models and Applications, 2th 13th October 2015, Tabuk, KSA.
- [23] **Sawalha, Majdi;** Brierley, Claire; Atwell, Eric and Dickins, James (2014) "Text Analytics and Transcription Technology for Quranic Arabic", in: proceedings of IMAN 2014: 2nd International Conference on Islamic Applications in Computer Science and Technologies, 12th 13th October 2014, Amman, Jordan
- [22] **Sawalha, Majdi**; Al-Humssi, Laila; Momani, Raya; AlSaber, Sereen (2014). Automatic Qur'an Reciter. in Proceedings of the 2nd International Conference on Islamic Applications in Computer Science and Technologies (IMAN 2014), 12th 13th October 2014, Amman, Jordan.
- [21] Sawalha, Majdi; Brierley, Claire and Atwell, Eric (2014) "Automatically generated, phonemic Arabic-IPA pronunciation tiers for the Boundary Annotated Qur'an Dataset for Machine Learning (version 2.0)", in: proceedings of LRE-Rel 2: 2nd Workshop on Language Resource and Evaluation for Religious Texts, LREC 2014 post-conference workshop 31st May 2014, Reykjavik, Iceland
- [20] Brierley, Claire; **Sawalha, Majdi**; and Atwell, Eric (2014) Tools for Arabic Natural Language Processing: a case study in qalqalah prosody, in: **proceedings of LREC 2014 the 9th edition of the Language Resources and Evaluation Conference**, 26-31 May, Reykjavik, Iceland
- [19] AlMaayah, Manal; Sawalha, Majdi and Abushariah, Mohammad A. M. (2014). A Proposed Model for Quranic Arabic WordNet, in: proceedings of LRE-Rel 2: 2nd Workshop on Language Resource and Evaluation for Religious Texts, LREC 2014 post-conference workshop 31st May 2014, Reykjavik, Iceland
- [18] **Sawalha, Majdi;** Atwell, Eric (2013).Comparing morphological tag-sets for Arabic and English. **Proceedings of the 7th International Corpus Linguistics Conference CL2013**, 22-26 July 2013, Lancaster, UK.
- [17] **Sawalha, Majdi;** Atwell, Eric; Abushariah, Mohammad A. M. (2013). Accelerating the processing of large corpora: using Grid Computing for lemmatizing the 176 million words Arabic Internet Corpus. **Proceedings of the 2nd Workshop of Arabic Corpus Linguistics WACL-2,** 22 July 2013, Lancaster, UK.
- [16] Abbas, Noorhan; AlDhubayi, Luluh; Al-Khalifa, Hend; Alqassem, Zainab; Atwell, Eric; Dukes, Kais; Sawalha, Majdi; Sharaf, Abdul-Baquee Mohammed (2013). Unifying linguistic annotations and ontologies for the Arabic Quran. Proceedings of the 2nd Workshop of Arabic Corpus Linguistics WACL-2, 22 July 2013, Lancaster, UK.
- [15] Abushariah, Mohammad A. M; **Sawalha, Majdi**; (2013). The effects of speakers' gender, age, and region on overall performance of Arabic automatic speech recognition systems using the phonetically rich and balanced Modern Standard Arabic speech corpus. **Proceedings of the 2nd Workshop of Arabic Corpus Linguistics WACL-2,** 22 July 2013, Lancaster, UK.
- [14] **Sawalha, Majdi;** Atwell, Eric; Abushariah, Mohammad A. M. (2013). SALMA: Standard Arabic Language Morphological Analysis. **Proceedings of the First International Conference on Communications, Signal Processing, and their Applications (ICCSPA'13)**. Sharjah, UAE.

- [13] Sawalha, Majdi; Brierley, Claire; Atwell, Eric (2012). التحليل الآلي للوقف والابتداء في نصــوص اللغة العربية الحديثة Automatic Analysis of Phrase-Break Prediction for Arabic". Proceedings of the International Computing Conference in Arabic: ICCA 2012, Cairo, 26-28 Dec 2012, http://www.altec-center.org/ICCA/11-3-4/.
- [12] **Sawalha, Majdi;** Brierley, Claire; Atwell, Eric (2012). Predicting Phrase Breaks in Classical and Modern Standard Arabic Text. in: **Proceedings of the Language Resource and Evaluation Conference LREC 2012**, 17-23 May 2012, Istanbul, Turkey.
- [11] Brierley, Claire; **Sawalha, Majdi;** Atwell, Eric (2012). Open-Source Boundary-Annotated Corpus for Arabic Speech and Language Processing. in: **Proceedings of the Language Resource and Evaluation Conference LREC 2012**, 17-23 May 2012, Istanbul, Turkey.
- [10] **Sawalha, Majdi**; Atwell, Eric (2011). التحليل الصَرْفي لنصوص اللغة العربية الحديثة والكلاسيكية "Morphological Analysis of Classical and Modern Standard Arabic Text". **7th International Computing Conference in Arabic (ICCA11).** 31st May 2nd June 2011, Imam Mohammed Ibn Saud University, Riyadh, KSA.
- [09] Atwell, Eric; Brierley, Claire; Dukes, Kais; **Sawalha, Majdi;** Sharaf, Abdul-Baquee (2011) An Artificial Intelligence Approach to Arabic and Islamic Content on the Internet. in: **Proceedings of NITS 3rd National Information Technology Symposium.**
- [08] Sharaf, Abdul-Baquee; Atwell, Eric; Dukes Kais; **Sawalha, Majdi**; Al-Saif, Amal; Sharoff, Serge; Markert, Katja; Al-Sulaiti, Latifa; Abu Shawar, Bayan; Abbas, Nora; Roberts, Andy(2010). المشاريع الحاسوبية على اللغة "Arabic and Quranic Computational Linguistics Projects at the University of Leeds". in: **Proceedings of the workshop of Increasing Arabic Contents on the Web, organized by Arab League Educational, Cultural and Scientific Organization (ALECSO)**, 16-19 October 2010, Damasus, Syria.
- [07] **Sawalha, Majdi;** Atwell, Eric (2010). *Fine-Grain Morphological Analyzer and Part-of-Speech Tagger for Arabic Text*. in: **Proceedings of the Language Resource and Evaluation Conference LREC 2010**, 17-23 May 2010, Valleta, Malta.
- [06] Sawalha, Majdi; Atwell, Eric (2010). Constructing and Using Broad-Coverage Lexical Resource for Enhancing Morphological Analysis of Arabic. in: Proceedings of the Language Resource and Evaluation Conference LREC 2010, 17-23 May 2010, Valleta, Malta.
- [05] **Sawalha, Majdi**; Atwell, Eric (2009). *Linguistically Informed and Corpus Informed Morphological Analysis of Arabic*. in: **Proceedings of the 5th International Corpus Linguistics Conference CL2009**, 20-23 July 2009, Liverpool, UK.
- [04] **Sawalha, Majdi**; Atwell, Eric. (2009) توظيف قواعد النحو والصرف في بناء محلل صرفي للغة العربية (Adapting Language Grammar Rules for Building Morphological Analyzer for Arabic Language). in: **Proceedings of the workshop of morphological analyzer's experts for Arabic language**, organized by Arab League Educational, Cultural and Scientific Organization (ALECSO), King Abdul-Aziz City of Technology (KACT) and Arabic language Academy. Damascus, Syria.26-28 April 2009.
- [03] **Sawalha, Majdi**; Atwell, Eric. (2008) *Comparative evaluation of Arabic language morphological analysers and stemmers* in: **Proceedings of COLING 2008 22nd International Conference on Comptational Linguistics**. 18-22 August, 2008, Manchester, UK.
- [02] Kanaan, Ghassan; Al-Shalabi, Riyad; **Sawalha, Majdi** (2004), Improving Arabic Information Systems using Part of Speech Tagging, in: Proceedings of SJICM, The Sixth Jordanian International Congress of Mathematics, Organized by the Jordanian Mathematical Society in cooperation with Yarmouk University, Irbid, Jordan. 31st August 3rd September 2004

[01] Kanaan, Ghassan; Al-Shalabi, Riyad; **Sawalha, Majdi** (2003), Full Automatic Arabic Text Tagging System, in: **Proceedings of ICITNS, International Conference on Information Technology and Natural Sciences**, Al-Zaytoonah University of Jordan, Amman, Jordan, October 19-21, 2003.

Conference presentations

- [13] **Sawalha, Majdi**; Brierley, Claire; Atwell, Eric; Dickins, James (2015). *Arabic > IPA Transcription Technology*. Language Data Analytics Workshop. 16 September 2015, The University of Leeds, Leeds, UK.
- [12] **Sawalha, Majdi**; Brierley, Claire; Atwell, Eric; Dickins, James (2015). *Language Resources, Algorithms, and Machine Learning for Prosodic Analysis of Classical and Modern Standard Arabic: an Overview.* The Forum for Arabic Linguistics conference. 28-30th July 2015, the University of Essex, Essex, U.K.
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