

**Personal Information**

<b>Name</b>	Dima Mahmood Suleiman
<b>Place and date of birth</b>	13 October 1980. Saudi Arabia
<b>Faculty</b>	KASIT
<b>Department</b>	Information Technology

**Qualifications**

<b>Qualification</b>	<b>Specialization</b>	<b>University of donor rank</b>	<b>Date</b>
Ph.D.	Computer Science	Princess Sumaya University for Technology	5/9/2020
Master	Computer Science	The university of Jordan	٢٠٠٤/٧/٣٠
Bachelor	Computer Science	The university of Jordan	٢٠٠٢/٦/٣٠

**Specialization and domain of interest**

<b>Specialization</b>	Data science and artificial intelligence
<b>Domain of interest</b>	Deep learning and big data

**Specialization and domain of interest****Title and abstract of the doctoral thesis (within 150 words)**

Title: Deep learning based abstractive Arabic text summarization

Abstract: In recent years, the unprecedented growth in the number of online documents has expanded the need for automatic text summarization. Text summarization is classified into extractive and abstractive text summarization. Extractive text summarization picks crucial words and sentences from the original text to generate a summary. By contrast, abstractive summarization requires real

semantics knowledge of the original text to reproduce it in a new way. There are few studies of abstractive text summarization, since it is harder and more challenging to complete than extractive.

Even though automatic summarization has more inquiries in the English language, there are still few concerns in languages with complex structures and that have a large number of morphemes, such as the Arabic language. The need for Arabic summarization is crucial because of the large number of online Arabic documents. They must be summarized if the information they contain is to be retrieved, uploaded, and used in a reasonable time. This dissertation proposes two abstractive Arabic text summarization models.

### Career Experience

Job Title	Place of work	Date
Teacher	The university of Jordan	12-2-2006 until now
Oracle Senior Programmer & Developer	Al Ittihad Schools Amman	1st of Oct-2002 till 31 of Aug- 2005

### Administrative works and committees

Administrative work and committee	Date
Department social committee	11/10/2020
Students' project and training	11/10/2020

### Recent Publications within last five years

Research title, Publisher, Date	Name of researcher
<b>Deep Learning Based Abstractive Text Summarization: Approaches, Datasets, Evaluation Measures, and Challenges</b> , in 2020 Mathematical Problems in Engineering, vol. 2020, pp. 1-29	Dima Suleiman and Arafat Awajan
<b>DEEP LEARNING BASED ABSTRACTIVE ARABIC TEXT SUMMARIZATION USING TWO LAYERS ENCODER AND ONE LAYER DECODER</b> , Journal of Theoretical and Applied Information Technology, Vol. 98, no. 16, p. 12, 2020. (SCOPUS).	Dima Suleiman and Arafat Awajan
<b>Deep Learning Based Extractive Text Summarization: Approaches, Datasets and Evaluation Measures</b> , The Sixth IEEE International Conference on Social Networks Analysis, Management and Security(SNAMS-2019)	Dima Suleiman and Arafat Awajan
<b>Keywords Extraction from Arabic Documents Using Centrality Measures</b> , The Sixth IEEE International Conference on Social Networks Analysis, Management and Security(SNAMS-2019)	Wael Etaiwi, Arafat Awajan and Dima Suleiman
<b>Arabic Text Keywords Extraction using Word2vec</b> , The 2nd International Conference on new Trends in Computing Sciences (ICTCS'19), Amman, 2019	Dima Suleiman, Arafat Awajan and Wael Etaiwi
<b>Using Part of Speech Tagging for Improving Word2vec Model</b> , The 2nd International Conference on new Trends in Computing Sciences (ICTCS'19), Amman, 2019	Dima Suleiman and Arafat Awajan
<b>Comparative Study of Word Embeddings Models and Their Usage in Arabic Language Applications</b> , ACIT 2018 - 19th International Arab Conference on Information Technology,	Suleiman, D., Awajan, A.
<b>Deep Learning Based Technique for plagiarism detection in Arabic texts</b> , The International Conference on new Trends in Computing Sciences (ICTCS2017), 216-222	D Suleiman, A Awajan and N Al-Madi
<b>LSHADE Enhancement Using MTS-LS1</b> , The International Conference on new Trends in Computing Sciences (ICTCS2017), 109-115.	M Alian, D Suleiman and M Z. Ali

<b>Bag-of-concept based keyword extraction from Arabic documents</b> , 8th International Conference on Information Technology (ICIT), At Amman, Jordan, Jordan, DOI 10.1109/ICITECH.2017.8079959 May 2017	D Suleiman, A Awajan
<b>A survey on prioritization regression testing test case</b> , 8th International Conference on Information Technology (ICIT), At Amman, Jordan, Jordan, May 2017, DOI:10.1109/ICITECH.2017.8079958	M Alian, D Suleiman and A Hudaib
<b>An experimental Software Defined Security controller for Software Defined Network, Software Defined Systems (SDS)</b> , 2017 Fourth International Conference on, 32-36 (2017).	M Al-Zewairi, D Suleiman, S Almajali
<b>SMS Spam Detection using H2O Framework</b> , Procedia Computer Science 113, 154-161(2017).	D Suleiman, G Al-Naymat
<b>The Use of Hidden Markov Model in Natural ARABIC Language Processing: a survey</b> , Procedia Computer Science 113, 240-247(2017).	D Suleiman, A Awajan, W Al Etaiwi
<b>An Empirical Evaluation of Intelligent Machine Learning Algorithms under Big Data Processing Systems</b> , Procedia Computer Science 113, 539-544 (2017).	D Suleiman, M Al-Zewairi, G Naymat
<b>Statistical Arabic Name Entity Recognition Approaches: A Survey</b> , Procedia Computer Science 113, 57-64(2017)	W Etaiwi, A Awajan, D Suleiman
<b>Towards Adaptive Hybrid Optimization Technique</b> , International Journal of Advanced Studies in Computers, Science and Engineering, 5(11) 2016.	M Alian, A Hudaibline, D Suleiman
<b>Multilevel Fuzzy Inference System for Risk Adaptive Hybrid RFID Access Control System</b> , Cybersecurity and Cyberforensics Conference (CCC), 2016, 1-7	M Al-Zewairi, D Suleiman, A Shaout
<b>Dynamic Berry Ravindran Algorithm for Pattern Matching (DBR)</b> , 16th International Conference on Applied Computer Science (ACS '16), At Istanbul, Turkey, 2016.	Amjad Hudaib, Dima Suleiman
<b>A Fast Pattern Matching Algorithm Using Changing Consecutive Characters</b> , Journal of Software Engineering and Applications, 2016, 9, 399- 411.	A Hudaib, D Suleiman, A Awajan
<b>Test Case Reduction Techniques - Survey, (IJACSA)</b> International Journal of Advanced Computer Science and Applications, 7(5) 2016.	Marwah Alian, Dima Suleiman

<b>Enhancing ERS-A Algorithm for Pattern Matching (EERS-A)</b> Journal of Software Engineering and Applications 2015; 8(3).	Dima Suleiman, Mariam Itriq, Aseel Al-Anani, Rola Al-Khalid, Amjad Hudaib
<b>Four Sliding Windows Pattern Matching Algorithm (FSW)</b> , Journal of Software Engineering and Applications 2015; 8(3).	Amjad Hudaib, Rola Al-Khalid, Aseel Al-Anani, Mariam Itriq, Dima Suleiman
<b>Enhanced Berry Ravindran Pattern Matching Algorithm (EBR)</b> , Life Science Journal 2014;11(7)	Suleiman D
<b>A New Approach for Database Fragmentation and Allocation to Improve the Distributed Database Management System Performance A New Approach for Database Fragmentation and Allocation to Improve the Distributed Database Management System Performance</b> , Journal of Software Engineering and Applications 7(7):891-905, DOI 10.4236/jsea.2014.711080	R Al-SayyedF A Al Zaghoul, D Suleiman, M Itriq, I Hababeh
<b>ERS-A Algorithm for Pattern Matching</b> . Middle East Journal of Scientific Research.2013. Vol. 15 Issue 7, p 1067-1075	Suleiman D,Hudaib A, Al-Anani A,Al-Khalid R, Itriq M
<b>MOBILE SHOPPING MALL NAVIGATOR</b> . JOURNAL OF THEORETICAL AND APPLIED INFORMATION TECHNOLOGY, 2012: Volume 46 No.2	Rizik M. H. Al-Sayyed, Dima Mahmoud Suleiman, Dana Fayez Marzouq, Rana Hassan Al-Rifai,Reem Shukri Al-Shweiki
<b>Enhanced Two Sliding Windows Algorithm For Pattern Matching (ETSW)</b> . Journal of American Science, 2012;8(5), 2012.	Mariam Itriq, Amjad Hudaib, Aseel Al-Anani, Rola Al-Khalid, Dima Suleiman
<b>A Fast Pattern Matching Algorithm with Two Sliding Windows (TSW)</b> . Journal of Computer Science, 4(5): 393-401, 2008.	Amjad Hudaib, Rola Al-Khalid, Dima Suleiman, Mariam Itriq and Aseel Al-Anani

Conference Title	Place and date of conference	Type of participation
The Sixth IEEE International Conference on Social Networks Analysis, Management and Security(SNAMS-2019)	Granada Spain 22-25/10/2019	Author
The 2nd International Conference on new Trends in Computing Sciences (ICTCS'19), Amman, 2019	Amman Jordan 9- 11/10/2019	Author and organizer
, ACIT 2018 - 19th International Arab Conference on Information Technology,	Beirut Lebanon 26-30/11/2018	Author
The International Conference on new Trends in Computing Sciences (ICTCS2017), 216-222	Amman Jordan ١١-١٣/١٠/٢٠١٧	Author and organizer
The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN)	Lund, Sweden September 18-20, 2017	Author
ICIT 2017 - 8th International Conference on Information Technology, Proceedings	Amman may 2017	Author
Cybersecurity and Cyberforensics Conference (CCC	Amman, 2016	Author
16th International Conference on Applied Computer Science (ACS '16)	Istanbul, Turkey, 2016	Author

### Training courses

Name of course	Date
Salasil Desktop Online	2020-06-15
Automated Exams	2020-03-11
Online (Microsoft Teams)	2020-06-17

### Teaching activities

Taught Courses	Bachelor	Graduate
Management information systems	■	<input type="checkbox"/>
Database languages and tools	■	<input type="checkbox"/>
Programming languages	■	<input type="checkbox"/>
Algorithms	■	<input type="checkbox"/>
Simulation	■	<input type="checkbox"/>
Web1	■	<input type="checkbox"/>
Web2 (PHP)	■	<input type="checkbox"/>
Web publishing	■	<input type="checkbox"/>
C++	■	<input type="checkbox"/>
Advanced PHP	■	<input type="checkbox"/>
Computer networks	■	<input type="checkbox"/>
Wireless communications	■	<input type="checkbox"/>
Visual Basic	■	<input type="checkbox"/>
E-commerce	■	<input type="checkbox"/>
Database systems	■	<input type="checkbox"/>
Computer skills	■	<input type="checkbox"/>
Python	■	<input type="checkbox"/>
Websites design	<input type="checkbox"/>	■
Graphics	<input type="checkbox"/>	■

**Membership in scientific and professional bodies and societies**

Name and place of scientific body and society	Date

**Awards**

Name of Award	Donor and place of award	Date