

CURRICULUM VITAE



PERSONAL DETAILS:

Name : Mohammad Abd-Alrahman Mahmoud Abushariah
Academic Rank : Associate Professor
Nationality : Jordanian
Marital Status : Married with 4 children (Tameem, Kareem, Hakeem, and Maasah)
Home Address : Amman - Jordan
E-mail Address : m.abushariah@ju.edu.jo **and** m.abushariah@gmail.com
Contact No. : +96265355000 (Ext.: 22616) (**Office**)

FOLLOW ME AT:

University's Personal Website:

<http://eacademic.ju.edu.jo/M.AbuShariah/default.aspx>

Google Scholar:

<http://scholar.google.com/citations?user=JBS28ZgAAAAJ&hl=en&oi=ao>

ResearchGate.net:

https://www.researchgate.net/profile/Mohammad_Abushariah

Academia.edu:

<https://ju-jo.academia.edu/MohammadAbdAlrahmanMahmoudAbushariah>

Linkedin.com:

https://www.linkedin.com/profile/view?id=118238931&trk=nav_responsive_tab_profile

Researcher ID: C-2501-2015

ORCID ID: orcid.org/0000-0002-1676-8765

National Database for Researchers at Universities & Scientific Centers ID: 3839

EDUCATIONAL BACKGROUND

- **January 2007 – May 2012**

University of Malaya, Malaysia

Doctor of Philosophy (Ph.D.) Computer Science and Information Technology

Thesis Title: Automatic Continuous Speech Recognition Based on Phonetically Rich and Balanced Arabic Speech Corpus

- **July 2005 – September 2006**

University of Malaya, Malaysia

Master of Software Engineering

Cumulative Grade Point Average (CGPA) 3.67 out of 4.00

Dissertation Title: A Vector Quantization Approach to Isolated-Word Automatic Speech Recognition

- **November 2001 – March 2006**

International Islamic University Malaysia, Malaysia

Bachelor of Information Technology (Honours)

Cumulative Grade Point Average (CGPA) 3.417 out of 4.00

Final Year Project Title: Interactive Speech Recognition System (ISRS)

- **November 2001 – March 2005**

International Islamic University Malaysia, Malaysia

Bachelor of Management Information System (Honours)

Cumulative Grade Point Average (CGPA) 3.403 out of 4.00

- **June 2000 – October 2001**

Matriculation Centre,

International Islamic University Malaysia, Malaysia

Pre-University Certificate in Economics and Management Sciences (A-Level Equivalent)

LANGUAGE PROFICIENCY

	Reading	Writing	Listening	Speaking
• Arabic Language (Mother-Tongue)	Excellent	Excellent	Excellent	Excellent
• English Language	Excellent	Excellent	Excellent	Excellent
• Malay Language	Good	Good	Good	Good

RESEARCH INTERESTS

My research interests include areas like: Natural Language Processing (NLP), Automatic Speech Recognition (ASR), Speech and Text Processing, Artificial Intelligence (AI), Human Computer Interaction (HCI), Software Engineering (SE), Information Systems (IS) and some other relevant areas.

Speech and Text Processing:

- Large Vocabulary Continuous Speech Recognition (LVCSR) for Arabic Language and other languages.
- Recognizing Speech of The Holy Qur'an and Qiraat Identification.
- Isolated-Words Speech Recognition.
- Isolated-Words Speech Detection.
- Multilingual Speech Detection and Recognition.
- Multimodal Speaker Verification and Recognition.
- Speech Pronunciation Scoring.
- Arabic Question Answering Using Universal Networking Language (UNL).
- Qur'anic Arabic WordNet.
- Text Documents Search.
- Written and Spoken Arabic Language Resources Preparation and Processing.
- Corpus Linguistics.

Image Processing:

- Image Recognition.
- Bimodal and Multimodal Person Identification and Verification.
- Handwritten Signatures-Based Person Identification and Verification.
- Medical Imaging.
- Facial Recognition.
- Emotion Recognition using Facial Expressions.

Software Engineering:

- Software Architecture.
- Software Design.
- Software Requirements Engineering.
- Software Reverse Engineering.
- Software Reusability.
- Software Quality and Metrics.
- Project Management.

WORKING EXPERIENCE

- **May 2017 – Current**

Organization: King Abdullah II School for Information Technology,
The University of Jordan, Jordan

Position: Associate Professor

Responsibilities: Teaching various undergraduate and postgraduate courses and supervising final year project and Master/PhD students in the department of Computer Information Systems (CIS).

- **5th July 2023 – Current**

Organization: Accreditation and Quality Assurance Center,
The University of Jordan, Jordan

Position: Acting Director

Responsibilities: Handling and managing all administrative affairs and other tasks in the Accreditation and Quality Assurance Center at The University of Jordan.

- **12th June 2023 – Current**

Organization: Accreditation and Quality Assurance Center,
The University of Jordan, Jordan

Position: Deputy Director

Responsibilities: Handling and managing all administrative affairs and other tasks in the Accreditation and Quality Assurance Center in support to the Director's tasks at The University of Jordan.

- **18th January 2023 – 11th June 2023**

Organization: Quality Assurance Department in the Accreditation and Quality Assurance Center, The University of Jordan, Jordan

Position: Director

Responsibilities: Handling and managing the administrative affairs and other tasks within the Quality Assurance Department in the Accreditation and Quality Assurance Center.

- **August 2019 – August 2020**

Organization: College of Computer Science and Engineering,
Taibah University, Kingdom of Saudi Arabia

Position: Associate Professor

Responsibilities: Teaching various undergraduate and postgraduate courses and supervising final year project and Master students in the department of Computer Sciences (CS).

- **1st September 2018 – 23rd September 2018**

Organization: King Abdullah II School of Information Technology,
The University of Jordan, Jordan

Position: Acting Dean

Responsibilities: Handling all administrative, academic, and graduate affairs, and other tasks in King Abdullah II School of Information Technology at The University of Jordan.

- **September 2016 – September 2018**

Organization: King Abdullah II School of Information Technology,
The University of Jordan, Jordan

Position: Deputy Dean

Responsibilities: Handling graduate affairs, administrative affairs, academic affairs, and others in King Abdullah II School of Information Technology at The University of Jordan.

- **September 2015 – September 2016**

Organization: Faculty of Graduate Studies,
The University of Jordan, Jordan

Position: Assistant Dean for Development and Quality Affairs

Responsibilities: Handling all quality assurance matters of Graduate programs offered by The University of Jordan, responsible for computerization of all business procedures of the Faculty of Graduate Studies through coordinating the development of computer programs and systems, and also handling faculty's information technology related aspects including infrastructure, software, applications, ...etc.

- **September 2014 – September 2015**

Organization: Faculty of Graduate Studies,
The University of Jordan, Jordan

Position: Assistant Dean for Students Affairs

Responsibilities: Handling students affairs and faculty's information technology related aspects including infrastructure, software, applications, ... etc.

- **April 2014 – December 2014**

Organization: Samsung R&D Institute - Jordan, Samsung Electronics Co. Ltd., King Hussein Business Park, Amman, Jordan.

Position: Consultant

- **May 2012 – May 2017**

Organization: King Abdullah II School for Information Technology,
The University of Jordan, Jordan

Position: Assistant Professor

Responsibilities: Teaching various undergraduate and postgraduate courses and supervising final year project and Master students in the department of Computer Information Systems (CIS).

- **January 2011 – April 2011**

Organization: University of Malaya, Malaysia

Position: Lecturer (Part-Time)

Responsibilities: Teaching 2 undergraduate courses entitled “Software Architecture and Design Paradigms” and “Software Evolution and Configuration” for Bachelor of Computer Science students – specialized in Software Engineering.

- **July 2010 – November 2011**

Organization: University of Malaya, Malaysia

Position: Secretary General, Malaysian Journal of Computer Science, ISI Journal.

Responsibilities: Handling all processing and day-to-day operations of the journal.

- **July 2010 – December 2010**

Organization: University of Malaya, Malaysia

Position: Lecturer (Part-Time)

Responsibilities: Teaching a master degree course entitled "Software Quality and Metrics" for Master of Software Engineering students.

- **04 April 2007 – 31 May 2008**

Organization: University of Malaya, Malaysia

Position: Visiting Lecturer

Responsibilities: Teaching courses for both undergraduate and postgraduate students in the Department of Software Engineering, Faculty of Computer Science and Information Technology, as well as supervising students' final year projects and research in areas like speech processing, image processing and software engineering.

- **December 2006 – April 2007**

Organization: University of Malaya, Malaysia

Position: Lecturer (Part-Time)

Responsibilities: Teaching a master degree course entitled "Information Systems Planning" for Master of Computer Science students, specialized in MIS.

- **December 2006 – April 2007**

Organization: University of Malaya, Malaysia

Position: Research Assistant (Full-Time)

Responsibilities: Conducting a research on multilingual automatic isolated-words speech recognition technology, speech analysis and processing.

- **October 2006 – February 2007**

Organization: Saudi School in Kuala Lumpur, Malaysia

Position: Computer Science Teacher and Computerized Systems Controller.

Responsibilities: Teaching basics of computer science, applications, and Microsoft Office. In addition, handling the "Maaref" system supported by the Ministry of Education, Kingdom of Saudi Arabia.

- **December 2005 – November 2006**

Organization: University of Malaya, Malaysia

Position: Part-time Tutor

Responsibilities: Tutoring a master degree course entitled "Software Quality Assurance and Project Management", discussing problems and solutions, providing tutorials and consultations.

- **December 2005 – March 2006**

Organization: University of Malaya, Malaysia

Position: Research Assistant

Responsibilities: Conducting a research in speech recognition technology and its validity in designing telephony systems, conducting a literature review for that technology.

- **July 2005 – November 2005**

Organization: International Islamic University Malaysia, Malaysia

Position: Part-time Tutor

Responsibilities: Tutoring bachelor degree courses entitled “Operating Systems”, “Project Management in IT”, “Final Year Project I and Final Year Project II”. Discussing problems and solutions, providing tutorials, consultations, hands-on sessions, and grading for MATLAB especially in Image Processing Toolbox for Final Year Project I and II.

- **June 2003 – September 2004**

Organization: International Islamic University Malaysia (IIUM) Holdings Sdn. Bhd.

Position: Student Assistant

Responsibilities: Helping in managing the human resource department especially in employing new teachers for the International Islamic College and School by handling all the applications, creating a database of all records and calling applicants for interviews.

ACADEMIC ACTIVITIES

① Research Groups Involvement and Collaboration:

1) Nov 2019 – Current

Research Group: Forming a new research group with other colleagues entitled “Computational Linguistics, Speech, and Image Processing (CLSIP)” in the Department of Computer Science, College of Computer Science and Engineering, Taibah University, Kingdom of Saudi Arabia.

Position: Rapporteur and Member.

2) May 2015 – Current

Research Group: Collaboration on a project entitled "Real Time Arabic Sign Language to Arabic Text Translation by Gesture Recognition Technique". University of Malaya (UM), Malaysia.

Position: Research Collaborator/Ph.D Student Co-Supervisor.

3) January 2015 – Current

Research Group: Malaysia Special Interest Group (MySIG) on Big Data, University of Malaya, Malaysia.

Position: Committee Member.

4) August 2013 – December 2016

Research Group: Collaboration on a project entitled "Mobile Quranic Recitals and Error Detection using Speech Recognition". University Putra Malaysia (UPM), Malaysia.

Position: Research Collaborator/Ph.D Student Co-Supervisor.

4) 1 May 2013 – 30 April 2015

Research Group: Collaboration on a funded project entitled "Arabic AST Technology", funded by University of Malaya, Malaysia.

Position: Research Collaborator.

5) May 2012 – Current

Research Group: Arabic Natural Language Processing Group, King Abdullah II School of Information Technology, The University of Jordan.

Position: Committee Member.

6) May 2012 – Current

Research Group: Software Engineering Group, King Abdullah II School of Information Technology, The University of Jordan.

Position: Committee Member.

7) **August 2009 – September 2009**

Research Group: Department of Systems Engineering, King Fahd University of Petroleum and Minerals, Saudi Arabia. This research visit was mainly to conduct a research on speech recognition for Arabic language and it was about 2 months.

Position: Research Visitor.

8) **November 2007 – November 2010**

Research Group: Software Engineering Research Group, Department of Electrical and Computer Engineering, Faculty of Engineering, International Islamic University Malaysia, Malaysia.

Position: Committee Member.

9) **August 2007 – May 2008**

Research Group: Research group that handles a research in Software Architecture, in collaboration between Department of Software Engineering, Faculty of Computer Science and Information Technology, University of Malaya, Malaysia and The University of Western Ontario, Canada.

Position: Committee Member.

10) **June 2007 – December 2012**

Research Group: Computational Speech Research Group", Department of Software Engineering, Faculty of Computer Science and Information Technology, University of Malaya, Malaysia.

Position: Committee Member.

 **Journal Editorial Board Membership/Reviewer Involvement:**

1) **November 2022- Current**

Appointed as an *Editorial Board Member* for the International Journal of Advances in Soft Computing and its Applications (IJASCA), which is one of the Scopus indexed journals.

2) **October 2020**

Appointed as a *Guest Editor* for a special issue on "Arabic Natural Language Processing and Speech Recognition Using Deep and Machine Learning Approaches", which will be hosted by the International Journal of Speech Technology, Springer. The URL of the Call for Papers:

<https://www.springer.com/journal/10772/updates/18607992>

3) **February 2019- Current**

Appointed as an *Academic Editor* on the editorial board of Public Library of Science (PLOS) One Journal, which is indexed in Scopus and ISI/WoS (JCR).

4) **March 2018- Current**

Appointed as an *Editorial Board Member* for the Journal of Theoretical and Applied Information Technology (JATIT), which is one of the Scopus indexed journals.

5) **January 2017 – December 2017**

Appointed as an *External Associate Editor* for the Malaysian Journal of Computer Science (MJCS), which is one of the JCR indexed journals.

6) **September 2016**

Appointed as a *Guest Editor* for a special issue on "Arabic Natural Language Processing and Speech Recognition", which is scheduled to be published in Volume 19, Issue 3 (September 2016) of the International Journal of Speech Technology, Springer.

7) **April 2015**

Appointed as an *Editorial Team Member* for the International Journal of Open Information Technologies (INJOIT) (ISSN: 2307-8162), published by the Open Information Technologies Lab, Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University, Moscow, Russian Federation.

8) **Reviewer in the Following Journals:**

- **EURASIP Journal on Advances in Signal Processing**, (ISSN: 1687-6172 (Print) and 1687-6180 (Electronic)), Springer.
- **Multimedia Tool and Applications**, (ISSN: 1380-7501 (Print) and 1573-7721 (Electronic)), Springer.
- **International Journal of Speech Technology**, (ISSN: 1381-2416 (Print) and 1572-8110 (Electronic)), Springer.
- **Language Resources and Evaluation Journal**, (ISSN: 1574-020X (Print) and 1574-0218 (Electronic)), Springer.
- **Malaysian Journal of Computer Science**, (ISSN 0127-9084), University of Malaya, Malaysia.
- **The Arabian Journal for Science and Engineering**, (ISSN: 1319-8025 (Print) and 2191-4281 (Electronic)), Springer.
- **The International Arab Journal of Information Technology (IAJIT)**, (ISSN: 1683-3198 (Print) and 2309-4524 (Electronic)), Jordan.
- **Public Library of Science (PLOS) One journal**, (ISSN: 1932-6203 (Electronic)).
- **IEEE Access**, (ISSN: 2169-3536 (Electronic)), IEEE.
- **Journal of Theoretical and Applied Information Technology (JATIT)**, (ISSN: 1992-8645 (Print) and 1817-3195 (Electronic))

Conferences Technical Program Committee/Reviewer Involvement:

- 1) **20 – 25 May 2024**
Technical Program Committee (TPC) member of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024), Torino, Italy.
- 2) **17 – 19 November 2023**
Technical Program Committee (TPC) member of the 5th International Conference on Arabic Computational Linguistics (ACLing 2023), Dubai, UAE.
- 3) **24 – 25 June 2022**
Technical Program Committee (TPC) member of the 2nd Joint Spoken Language Technologies for Under-resourced languages (SLTU) and Collaboration and Computing for Under-Resourced Languages (CCURL) Workshop, co-located with LREC2022 in Marseille, France.
- 4) **21 – 25 June 2022**
Technical Program Committee (TPC) member of the 13th International Conference on Language Resources and Evaluation (LREC), Marseille, France.
- 5) **3 – 4 March 2022**
International Advisory Committee member and Technical Program Committee (TPC) member of the 2nd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET'2022), Meknes, Morocco.
- 6) **4 – 5 June 2021**
Technical Program Committee (TPC) member of the 5th International Conference on Arabic Computational Linguistics (ACLing 2021), Virtual Conference.
- 7) **1 – 2 April 2021**
Advisory Committee member and Technical Program Committee (TPC) member of the 2nd International Conference on Embedded Systems and Artificial Intelligence (ESAI'21), Fez, Morocco.
- 8) **8 December 2020**
Technical Program Committee (TPC) member of the International Conference on NLP & Artificial Intelligence Techniques (NLAI 2020), Kingswood NSW, Australia.
- 9) **21 – 22 November 2020**
Technical Program Committee (TPC) member of the 9th International Conference on Natural Language Processing (NLP), Zurich, Switzerland.
- 10) **14 – 17 October 2020**
Technical Program Committee (TPC) member of the Sixth International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'20), Chennai, India.
- 11) **20 – 21 June 2020**
Technical Program Committee (TPC) member of the 3rd International Conference on Natural Language Processing and Trends (NATAP 2020), Dubai, UAE.

- 12) **9 – 11 June 2020**
Technical Program Committee (TPC) member of the 2nd International Conference on New Trends in Information Technology (NTIT-2020), Amman, Jordan.
- 13) **11 – 16 May 2020**
Technical Program Committee (TPC) member of the 12th International Conference on Language Resources and Evaluation (LREC), Marseille, France.
- 14) **11 – 12 May 2020**
Technical Program Committee (TPC) member of the 1st Joint Spoken Language Technologies for Under-resourced languages (SLTU) and Collaboration and Computing for Under-Resourced Languages (CCURL) Workshop, co-located with LREC2020 in Marseille, France.
- 15) **19 – 20 March 2020**
International Advisory Committee member and Technical Program Committee (TPC) member of the 1st International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET'2020), FS Meknes, Morocco.
- 16) **15 – 16 December 2019**
Member of the reading committee of the International Conference on Theoretical and Applicative Aspects of Computer Science (ICTAACS'19), Skikda, Algeria.
- 17) **10 – 12 December 2019**
Organizer of a special session on "Arabic Natural Language Processing: Algorithms, Resources, Tools, Techniques and Applications" in conjunction with the 19th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'19), organized by the Ajman University, UAE.
- 18) **24 – 25 August 2019**
Technical Program Committee (TPC) member of the 5th International Conference on Signal Processing (SP 2019), Vienna, Austria.
- 19) **2 – 3 May 2019**
Advisory Committee member, Technical Program Committee (TPC) member, and keynote speaker of the 1st International Conference on Embedded Systems and Artificial Intelligence (ESAI'19), Fez, Morocco.
- 20) **9 – 11 April 2019**
Scientific Committee (SC) member and reviewer of the 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT 2019), Amman, Jordan.
- 21) **17 – 19 November 2018**
Technical Program Committee (TPC) member and reviewer of the 4th International Conference on Arabic Computational Linguistics (ACLing 2018), Dubai, UAE.

- 22) **5 – 6 November 2017**
Technical Program Committee (TPC) member and reviewer of the 3rd International Conference on Arabic Computational Linguistics (ACLing 2017), Dubai, UAE.
- 23) **25 – 27 April 2017**
Organizing Committee and Technical Program Committee (TPC) member and reviewer of New Trends in Information Technology (NTIT 2017), Amman, Jordan.
- 24) **24 – 26 October 2016**
Technical Program Committee (TPC) member and reviewer of the Intelligent Language Processing Track in conjunction with the 2nd International Conference on Advanced Intelligent Systems and Informatics (AISI'16), Cairo, Egypt.
- 25) **21 – 24 September 2016**
Technical Program Committee (TPC) member and reviewer of the 5th International Conference on Advances in Computing, Communications and Informatics (ICACCI), Jaipur, India.
- 26) **3 – 5 November 2015**
Technical Program Committee (TPC) member and reviewer of the IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Amman, Jordan.
- 27) **7 – 8 October 2015**
Technical Program Committee (TPC) member and reviewer of the 2nd Workshop on Computer and Information Sciences (WCIS 2015) on Arabic Natural Language Processing: Models, Systems and Applications, Tabuk, Saudi Arabia.
- 28) **10 – 13 August 2015**
Technical Program Committee (TPC) member and reviewer of the Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI'15), Kerala, India.
- 29) **19 – 21 February 2015**
Technical Program Committee (TPC) member and reviewer of the IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES'15), organized by IEEE Kerala Section and National Institute of Technology Calicut (NITC), Kozhikode, Kerala, India.
- 30) **17 – 19 February 2015**
Technical Program Committee (TPC) member and reviewer of the International Conference on Communications, Signal Processing, and their Applications (ICCSPA'15), organized by the American University of Sharjah, Sharjah, UAE.
- 31) **19 – 21 December 2014**
Among the organizers of the "Multimedia Communication Systems and Networks (MCSN)" track in conjunction with the Second International Conference on

Telecommunication Systems and Networks (MIC-Telecom 2014), Istanbul, Turkey.

32) 3 – 5 October 2014

Track Chair for the Speech and Language Processing (SLP) track in conjunction with the Second International Conference on Digital Signal Processing (MIC-SigProc2014), Dubai, UAE.

33) 15 – 17 August 2014

Among the organizers of the "Computer Vision and Applications (CVA)" track in conjunction with the Second International Conference on Computer Science and Engineering (MIC-Computing 2014), Milan, Italy.

34) 3 – 5 December 2013

Among the technical program committee members and reviewers of the "IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT)", IEEE Jordan Section, Amman, Jordan.

35) 12 – 14 February 2013

Organizer of 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), organized by the American University of Sharjah, Sharjah, UAE.

🕒 Workshops, Symposiums, and Exhibitions Involvement and Participation:

1) Workshops and Trainings:

• **22 – 26 October 2023**

I attended a five days' workshop on "**ISO 9001-2015 Lead Auditor**", which was organized by the Accreditation and Quality Assurance Center, Jordan.

• **27 – 30 November 2022**

I attended a four days' workshop on "**Media and Information Culture**", which was organized by the Jordan Media Institute, Jordan.

• **18 – 22 September 2022**

I attended a five days' training program on "**Entrepreneurship and Innovation**", which was organized by Orange, Jordan.

• **11 November 2021**

I attended a one-day workshop on "**Patents and Intellectual Properties**", which was organized by the Accreditation and Quality Assurance Center, The University of Jordan.

- **25 – 27 October 2021**

I attended a three-day workshop on "**Enhancing Student Work-Ready Skills**", which was organized by the Accreditation and Quality Assurance Center, The University of Jordan.

- **21 October 2021**

I attended a one-day workshop on "**Open Educational Resources**", which was organized by the Accreditation and Quality Assurance Center, The University of Jordan.

- **16 September 2015**

I attended a one-day workshop on "**QS Ranking**" presented by Kevin Downing, Consultant to QS and director of knowledge, enterprise and analysis, City University of Hong Kong, which was organized by the Accreditation and Quality Assurance Center, The University of Jordan.

- **9 November 2015**

I attended a one-day training and workshop called "**Higher Education Cooperation Day**" and "**Erasmus+ Project**" organized by National Erasmus+ Office – Jordan in cooperation with the European Union.

- **16 November 2015**

I attended a 3 hours training and workshop on "**Intended Learning Outcomes**", organized by the Accreditation and Quality Assurance Center, The University of Jordan.

- **25 August - 4 September 2013**

I attended the "**Staff Development Workshops**", which include designing study plans, modern trends in university teaching, exam preparation and learner's assessment, academic ethics, and laws, bylaws, and regulations of the University of Jordan, which were organized by Center of Educational Development, the University of Jordan.

2) **Symposiums and Exhibitions:**

- **31 May 2014**

Manal AlMaayah, Majdi Sawalha, and **Mohammad A. M. Abushariah**. A Proposed Model for Quranic Arabic WordNet. LRE-Rel 2: 2nd Workshop on Language Resource and Evaluation for Religious Texts, LREC 2014 post-conference workshop, Reykjavik, Iceland.

- **May 2014**

Dema Mahmood Etaiwi, Hamda Riad Alqisi, **Mohammad A. M. Abushariah**, and Omar Al-Adwan. My Rescuer System. 7th National Technology Parade (NTP), May, 2014.

- **May 2013**

Anood I. Sawaftah, Layla Douyat, **Mohammad A. M. Abushariah**, and Wesam A. Almobaideen. Automatic Arabic Computer Aided Language Learning System. Information Technology Students Activity Fair (ITSAF 2013), May, 2013.

- **February 2012**

A. A. M., Abushariah, T. S., Gunawan, J., Chebil, and **M. A. M., Abushariah**. Voice Based Automatic Person Identification System. Poster presented at International Islamic University Malaysia Research, Innovation, and Exhibition (IRIIE 2012), February, 2012.

- **February 2012**

A. A. M., Abushariah, T. S., Gunawan, J., Chebil, and **M. A. M., Abushariah**. Automatic Person Identification System Using Handwritten Signatures. Poster presented at International Islamic University Malaysia Research, Innovation, and Exhibition (IRIIE 2012), February, 2012. (**Won the Bronze Medal**).

- **25 November 2007**

Acting as a participant in a one day long workshop on "Designing Intelligent Systems with MATLAB", which was in collaboration with the International Conference on Intelligent and Advanced Systems (ICIAS'07), Kuala Lumpur, Malaysia.

- **6 September 2007**

Acting as a participant in a one day long workshop on "Investing in Your Future: A Workshop on Successful PhD Studies in IT", which was organized by MONASH University, Sunway, Malaysia.

- **June 2007 – July 2007**

A member of the organizing committee members and a participant in a training and workshop on various aspects of Software Engineering. The training was a one month long and the instructor was Prof. Nazim Madhavji, from The University of Western Ontario, Canada.

- **July 2006**

Mohammad A. M. Abushariah, Raja Noor Ainon, and Othman O. Khalifa. Telephony Speech Recognition System. Poster and demonstration of system presented at University of Malaya's Exhibition on Developing Human Capital through Research Excellence and Innovation, July, 2006. (**Won the Silver Medal**).

- **June 2006**

Mohammad A. M. Abushariah, Raja Noor Ainon, and Othman O. Khalifa. Telephony Speech Recognition System. Poster presented at University of Malaya's Graduate Symposium, June, 2006. (**Won the 2nd Prize**).

① **Teaching:**

➤ **Taught Courses (PhD and Master Levels):**

- Digital Media (PhD Level)
- Natural Language Processing (Msc., and PhD. Levels)
- Multimedia Systems Development
- Software Engineering
- Software Design
- Software Quality and Metrics
- Software Engineering Process and Practice
- Software Architecture and Design
- Information Systems
- Information System Planning

➤ **Taught Courses (Undergraduate Degree Level):**

- Natural Language Processing
- Software Architecture and Design Paradigms
- Software Evolution and Configuration
- Human Computer Interaction
- Project Management
- Systems Analysis, Modelling, and Design
- Systems Analysis and Design
- Software Engineering
- Introduction to Software Engineering
- Documentation and Ethics
- Interpersonal Communication and Documentation
- Computer Skills for Humanities
- Remedial Computer Skills
- Basics of Computing

➤ **Tutored Courses (Undergraduate and Master Levels):**

- Quality Assurance and Project Management (**Master**)
- Final Year Projects in Image Processing Using MATLAB (**Undergraduate**)
- Data Structures (**Undergraduate**)

➤ **Taught Courses (School Level):**

- Principles and Guidelines of the Use of Internet, and Microsoft Office 2003.

📌 **Research Grants:**

- **1 September 2019 – 31 August 2021**

I am appointed among other colleagues as a principal investigator for a research entitled "Intelligent Evolutionary Approach for Hate Speech Detection in Arabic Social Media", The University of Jordan. **Total Amount Funded:** JD16,500 about USD 23,000.

- **1 May 2017 – 31 May 2019**

I am appointed as a co-principal investigator for a research entitled "Automatic Speech Recognition for Speakers with Speech Disorders", The University of Jordan. **Total Amount Funded:** JD20,000 about USD 28,000.

- **1 April 2009 – 30 April 2012**

I was a group member of a research entitled "HMM-Based Speech Synthesis and Recognition for Malay and Arabic Languages", University of Malaya. **Total Amount Funded:** RM116,000 about USD 27,000.

📌 **Graduate Students Supervision:**

- **Ph.D. Thesis/Dissertation:**

I am currently appointed as a supervisor for three Ph.D. students in The University of Jordan, and collaborating through supervising Ph.D. students in University of Malaya, Malaysia.

- 1) **Student Name:** Alaa Abu Srhan (**Completed**) (**The University of Jordan**)
Thesis Title: Generative Adversarial Networks Modeling with Transfer Learning for Medical Images Analysis
- 2) **Student Name:** Imad Tantawi (**Completed**) (**The University of Jordan**)
Thesis Title: Automatic Speech Recognition of The Holy Quran Narrations Recitations.
- 3) **Student Name:** Areej Alshorman (**Completed**) (**The University of Jordan**)
Thesis Title: A Mathematical Model for Vulnerabilities Detection in Ethereum Smart Contracts.
- 4) **Student Name:** Majdi Ahed (**Completed**) (**The University of Jordan**)
Thesis Title: Empirical Machine Learning Classification of Arabic Speech-Acts from Tweets.
- 5) **Student Name:** Ahmad Sami Al-Shamayleh (**Completed**) (**University of Malaya**)
Thesis Title: Real Time Arabic Sign Language to Arabic Text Translation By Gesture Recognition Technique.
- 6) **Student Name:** Mohammad Tubishat (**Completed**) (**University of Malaya**) **Thesis Title:** Aspect-Based Sentiment Analysis.

➤ **Master Thesis/Dissertation:**

- 1) **Student Name:** Ahmad Mohammad Mamdouh Al-Tarawneh (**On-going**)
Thesis Title: Arabic Phishing Emails Detection using Machine Learning Techniques
- 2) **Student Name:** Monia Ala-Alden Abdul-Fattah Alnsour (**On-going**)
Thesis Title: Arabic Sentiment Analysis for Online Learning and Blended Learning in Jordan using Machine Learning Techniques
- 3) **Student Name:** Wala Mohammad Salem Alabdallat (**On-going**)
Thesis Title: Arabic Depression Detection using Machine Learning Techniques
- 4) **Student Name:** Dima Numan Hisham Al-Zyod (**On-going**)
Thesis Title: Automatic Person Identity Recognition Using Bimodal Human Biometrics
- 5) **Student Name:** Ro'a Nsour (**On-going**)
Thesis Title: Arabic Speech Emotions Recognition Using Deep Neural Networks
- 6) **Student Name:** Danyah Al-Btoush (**Completed**)
Thesis Title: Automatic Arabic Named Entity Recognition using Deep Learning Approach
- 7) **Student Name:** Radan Shaker Diefallah Akhoirshiedah (**Completed**)
Thesis Title: Automatic Liver Disease Detection Using Machine Learning Techniques
- 8) **Student Name:** Tasneem Al-Amawi (**Completed**)
Thesis Title: Automatic Continuous Speech Recognition for Jordanian Dialectal Arabic
- 9) **Student Name:** Alaa Al-Mrayat (**Completed**)
Thesis Title: Extraction of Unified Modeling Language Class and Sequence Diagram from JAVA Source Code in Software Process Models
- 10) **Student Name:** Baraa Alhourani (**Completed**)
Thesis Title: No-Reference Video Quality Assessment
- 11) **Student Name:** Laith Mohammad Al-Omari (**Completed**)
Thesis Title: Automatic Speech Emotions Recognition for Arabic Language.
- 12) **Student Name:** Ahmad Ghaleb Omar (**Completed**)
Thesis Title: Automatic Breast Cancer Detection Using Machine Learning Techniques.

- 13) Student Name:** Adel Mohammed Adel (**Completed**)
Thesis Title: Enhancing the Integration of Security within the Software Development Life Cycle through an Adaptive Risk Framework and an Automated Tool.
- 14) Student Name:** Mohammad Thaher Al-Zoubi (**Completed**)
Thesis Title: Hybrid Modeling of Modern Standard and Dialectal Arabic for Automatic Continuous Speech Recognition.
- 15) Student Name:** Safia Hammad Abu Saalik (**Completed**)
Thesis Title: Automatic Continuous Speech Recognition Using Sub-Words Approach for Arabic Language.
- 16) Student Name:** Batool Dawood (**Completed**)
Thesis Title: The Design and Implementation of an Arabic Question Answering System Based on the Universal Networking Language (UNL).
- 17) Student Name:** Manal Al-Ma'ayah (**Completed**)
Thesis Title: Quranic Arabic WordNet Design and Implementation.
- 18) Student Name:** Alaa Ahmad Al-Shdaifat (**Completed**)
Thesis Title: Towards Multithreaded Sliding Window to Improve Exact Pattern Matching Algorithms in Searching Text Documents.

➤ **Graduation Projects for Undergraduate Students:**

I have been supervising more than 20 different graduation projects on various topics including:

- Digital Transformation Projects for The University of Jordan
- Chatbot for KASIT Graduation Projects
- Chatbot for Admission and Registration Unit in The University of Jordan
- Chatbot for Health Insurance Department in The University of Jordan
- KASIT Graduating Students and Alumni Management System
- Automatic Heart Disease Diagnosis System
- Automatic Arabic Sign Language System
- Arabic Automatic Speech Recognition
- Bimodal Automatic Person Identification System
- Arabic to English Translator
- Nashmi Patrolman Robot
- Automatic Arabic Computer Aided Language Learning System
- KASIT Graduation Project Online Registration System
- KASIT Internship Management System
- My Rescuer System
- Sponsored Students' (External) Portal
- Shopping Mall Product Management and Navigation System
- UJ Sponsorship Management System
- Buy2Me Online Store
- Online Clearance System for UJ
- Online Application System for UJ
- Fraud Detection System
- Online Voting System for Jordanian Parliament General Elections
- Students Union Election System

ACADEMIC ACHIEVEMENTS AND AWARDS

- **July 2023 - Current**

Ranked number 1 among all faculty members in the Computer Information Systems department and number 23 among all faculty members in The University of Jordan, based on the number of citations in Scopus database.

- **February 2012**

Won the Bronze Medal in the International Islamic University Malaysia Research, Innovation, and Exhibition (IRIIE 2012) for poster and prototype presentations entitled “Automatic Person Identification System Using Handwritten Signatures”, Malaysia.

- **November 2008 - May 2012**

Awarded a scholarship from The University of Jordan to further PhD in University of Malaya, Malaysia.

- **July 2007 - May 2012**

Awarded the Malaysian Technical and Cooperation Programme (MTCP) scholarship for PhD, Malaysia.

- **July 2006**

Won the Silver Medal in the University of Malaya’s Exhibition on Developing Human Capital through Research Excellence and Innovation for poster and prototype presentations entitled “Telephony Speech Recognition System”, Malaysia.

- **June 2006**

Won the 2nd Prize in the University of Malaya’s Graduate Symposium for poster presentation entitled “Telephony Speech Recognition System”, Malaysia.

- **May 2005**

Nominated for the semi-final competition for the best final year project using Matlab and Simulink Software all over Malaysian public and private universities. The project was entitled “Interactive Speech Recognition System”, and the competition was organized by TechSource Systems Sdn. Bhd. in fulfillment of the requirements for the **TSS 1st Malaysia Engineering Design Challenge 2005**.

- **March 2005**

Nominated for the final competition for the best final year project (system development category) at the faculty level for the project entitled “Interactive Speech Recognition System”.

- **October 2003 - March 2005**

Awarded the Dean’s List Certification for several semesters for high academic achievement.

CO-CURRICULAR ACTIVITIES

- **June 2007 – June 2008**

Elected as the head of cultural secretariat of University of Malaya International Students Association (UMISA), Malaysia.

- **March 2004 – July 2004**

Elected as the Acting President of the Students' Representative Council (main students body), International Islamic University Malaysia, Malaysia.

- **September 2003 – September 2004**

Elected as the Deputy President of the Students' Representative Council (main students body), International Islamic University Malaysia, Malaysia.

- **March 2004 – July 2004**

Appointed as the Executive Director of a university programme known as "Ummatic Week 2004" which is a cultural week involving more than 30 participating countries, more than 400 committee members working for the programme and about 20 sub-programmes running during this cultural week, International Islamic University Malaysia, Malaysia.

- **March 2004**

Appointed as a facilitator for the Ta'aruf Week (Orientation Week) April 2003/2004 Intake, International Islamic University Malaysia, Malaysia.

- **December 2003 – January 2004**

Selected together with 30 other students to represent the university for an educational visit to Indonesia, International Islamic University Malaysia, Malaysia.

- **October 2003**

Appointed as the Deputy Director for the welcoming and pre-orientation programme for international students November 2003 Intake, International Islamic University Malaysia, Malaysia.

- **March 2003 – August 2003**

Appointed as the Executive Director of a university programme known as "Ummatic Week 2003" which is a cultural week involving more than 30 participating countries and more than 400 committee members working for the programme, International Islamic University Malaysia, Malaysia.

- **June 2000 – March 2005**

Appointed as a group leader for a credited Personality Development Course taught for the university students, International Islamic University Malaysia, Malaysia.

OTHER ACTIVITIES

- **3 October 2023**

I was invited to a TV dialogue program known as "Donya Ya Donya" that is shown in Roya TV, to talk about "Business and Technology Sustainability: Innovative business models to conserve resources and the environment". It can be viewed through Roya TV website on the following link:

<https://donyayadonya.com/articles/details/17759>

- **13 May 2017**

I was invited to a TV dialogue program known as "Yaum Jadeed" in English "New Day", that is shown in Jordan TV, to talk about "Automatic Speech Recognition for Arabic Language". It can be viewed through YouTube on the following link:

<https://www.youtube.com/watch?v=2gC67FNO2gQ>

- **12 March 2017**

I was invited to a TV dialogue conducted by Albosala News Agency to talk about the electronic crimes and invasion of privacy. It can be viewed through YouTube on the following link:

https://www.youtube.com/watch?v=A_07NCBJip8

- **9 March 2017**

I was invited to a TV dialogue conducted by Albosala News Agency to talk about the electronic crimes in Jordan and the precautions from using social media and smart devices. It can be viewed through YouTube on the following link:

https://www.youtube.com/watch?v=eHKepkv_p-0

- **19 September 2015**

I was invited to a TV dialogue program known as "Yaum Jadeed" in English "New Day", that is shown in Jordan TV, to talk about "Protection of Personal Privacy in Lights of Technological Advancement in Social Networks and Smart Phones". It can be viewed through YouTube on the following link:

<https://www.youtube.com/watch?v=ZboDhOFP0Go&t=34s>

- **March 2005**

TV shooting for a documentary programme known as "ANTARA BUDAYA", which I was the main actor representing a foreign person adapting to the Malaysian diverse cultures. It was a four days shooting and was shown on the TV, Malaysia.

- **January 2004 – April 2004**

Invited for live TV programmes including Malaysia Hari Ini (Malaysia Today) and Bicara Siswa (talking about students issues), Malaysia.

CO-CURRICULAR ACHIEVEMENTS

- **July 2005**

Awarded the **Rector's Gold Award** for the **Best Student Leader** for the academic session 2004/2005, International Islamic University Malaysia, Malaysia.

- **July 2004**

Awarded the Director's 2nd Prize Award for the Best Students' Programme for the Ummatic Week 2003 Programme, International Islamic University Malaysia, Malaysia.

RESEARCH PUBLICATIONS

❖ **Journals:**

- 1) **Mohammad A. M. Abushariah**, (2023). TAMEEM V2.0: Speakers and Text Independent Arabic Automatic Continuous Speech Recognizer Using Deep Neural Networks. **(Submitted)**
- 2) Assal A. M. Alqudah, Mohammad A. M. Alshraideh, Ahmad A. S. Sharieh, and **Mohammad A. M. Abushariah** (2023). Arabic Automatic Continuous Speech Recognition for Speakers with Speech Disorders using Pocketsphinx Tools. **(Submitted)**
- 3) Assal A. M. Alqudah, Mohammad A. M. Alshraideh, Ahmad A. S. Sharieh, and **Mohammad A. M. Abushariah** (2023). Arabic Automatic Speech Recognition for Speech Disorders: Review, Taxonomy, Resources, Opportunities, and Open Challenges. **(Submitted)**
- 4) Assal A. M. Alqudah, Mohammad A. M. Alshraideh, **Mohammad A. M. Abushariah**, and Ahmad A. S. Sharieh (2023). Modern Standard Arabic Speech Disorders Corpus for Digital Speech Processing Applications. *International Journal of Speech Technology*, Springer. **(Accepted)**
- 5) Ahmad A. M. Abushariah, **Mohammad A. M. Abushariah**, Teddy Surya Gunawan, J. Chebil, Assal A. M. Alqudah, Hua-Nong Ting, and Mumtaz Begum Peer Mustafa (2022). Fusion of Speech and Handwritten Signatures Biometrics for Person Identification. *International Journal of Speech Technology*, Springer. **(Accepted)** <https://doi.org/10.1007/s10772-023-10052-x>
- 6) Ahmad A. M. Abushariah, Hua-Nong Ting, Mumtaz Begum Peer Mustafa, Anis Salwa Mohd Khairuddin, **Mohammad A. M. Abushariah**, and Tan Tien Ping (2022). Bilingual Automatic Speech Recognition: A Review, Taxonomy and Open Challenges. *IEEE Access*. **(Accepted)**
- 7) Omar S. Al-Kadi, Israa Almallahi, Alaa Abu-Srhan, **Mohammad A. M. Abushariah**, Waleed Mahafza, (2022). Unpaired MR-CT Brain Dataset for Unsupervised Image Translation. *Data in Brief*, Vol. 42, Elsevier.
- 8) Alaa Abu-Srhan, **Mohammad A. M. Abushariah**, Omar S. Al-Kadi, (2022). The Effect of Loss Function on Conditional Generative Adversarial Networks. *Journal of King Saud University - Computer and Information Sciences*, Vol. 34, No. 9, pp. 6977-6988, Elsevier.
- 9) Alaa Abu-Srhan, Israa Almallahi, **Mohammad Abushariah**, Waleed Mahafza, Omar Sultan Al-Kadi, (2021). Paired-Unpaired Unsupervised Attention Guided GAN with Transfer Learning for Bidirectional Brain MR-CT Synthesis. *Computers in Biology and Medicine*, Vol. 136, 104763, Elsevier.

- 10) Imad K. Tantawi, **Mohammad A. M. Abushariah**, and Bassam H. Hammo, (2021). A Deep Learning Approach for Automatic Speech Recognition of The Holy Qur'an Recitations. *International Journal of Speech Technology*, Springer, Vol. 24, pp. 1017 – 1032.
- 11) Ahmed Ali, Shammur Chowdhury, Mohamed Afify, Wassim El-Hajj, Hazem Hajj, Mourad Abbas, Kamel Smaili, Nada Ghneim, **Mohammad Abushariah**, and Assal Alqudah, (2021). Connecting Arabs: Bridging the Gap in Dialectal Speech Recognition. *Communications of the ACM*, Vol. 64, No. 4, pp. 124 – 129.
- 12) Mohammad Tubishat, Norisma Idris, and **Mohammad Abushariah**, (2021). Explicit Aspects Extraction in Sentiment Analysis Using Optimal Rules Combination. *Future Generation Computer Systems*, Elsevier, Vol. 114, pp. 448 – 480.
- 13) Ibrahim Aljarah, Maria Habib, Neveen Hijazi, Hossam Faris, Raneem Qaddoura, Bassam Hammo, **Mohammad Abushariah**, Mohammad Alfawareh, (2021). Intelligent detection of hate speech in Arabic social network: A machine learning approach. *Journal of Information Science*, SAGE Publications, Vol. 47, No. 4, pp. 483–501.
- 14) Areej Al Shorman, Khair Eddin Sabri, **Mohammad A. M. Abushariah**, Mohammad Qaimari, (2020). Blockchain for Banking Systems: Opportunities and Challenges. *Journal of Theoretical and Applied Information Technology*, Vol. 98, No. 23, pp. 3703-3718.
- 15) Shaima Al-Khalifa, Ibrahim Aljarah, and **Mohammad Abd-Alrahman Abushariah**, (2020). Hate Speech Classification in Arabic Tweets. *Journal of Theoretical and Applied Information Technology*, Vol. 98, No. 11, pp. 1816-1831.
- 16) Raneem Qaddoura, Waref Al Manaseer, **Mohammad A. M. Abushariah**, and Mohammad Alshraideh, (2020). Dental Radiography Segmentation using Expectation-Maximization Clustering and Grasshopper Optimizer. *Multimedia Tools and Applications*, Springer, Vol. 79, pp. 22027 – 22045.
- 17) Majdi Ahed, Bassam Hammo, and **Mohammad A. M. Abushariah**, (2020). A Modified Twitter Corpus for the Classification of Arabic Speech Acts. *International Journal of Advanced Computer Science and Applications (IJACSA)*, Vol. 11, No. 3, pp. 207-215.
- 18) Mohammad Tubishat, Norisma Idris, Liyana Shuibb, **Mohammad A. M. Abushariah**, Seyedali Mirjalili, (2020). Improved salp swarm algorithm based on opposition based learning and novel local search algorithm for feature selection. *Expert Systems with Applications*, Elsevier, Vol. 145, pp. 113-122.
- 19) Ahmad Sami Al-Shamayleh, Rodina Ahmad, Nazeen Jomhari, **Mohammad A. M. Abushariah**, (2020). Automatic Arabic Sign Language Recognition: A Review, Taxonomy, Open Challenges, Research Roadmap and Future Directions. *Malaysian Journal of Computer Science*, Vol. 33, No. 4, pp. 306 – 343.

- 20) Mohammad Tubishat, **Mohammad A. M. Abushariah**, Norisma Idris, Ibrahim Aljarah, (2019). Improved Whale Optimization Algorithm for Feature Selection in Arabic Sentiment Analysis. *Applied Intelligence*, Vol. 49, No. 5, pp. 1688–1707.
- 21) Diaan Mohammed Uliyan, **Mohammad A. M. Abushariah**, and Ahmad M. Altamimi, (2018). Blur Invariant Features for Exposing Region Duplication Forgery Using ANMS and Local Phase Quantization. *Informatica - Journal of Computing and Informatics*, Vol. 42, No. 4, pp. 595–605.
- 22) Ahmad Sami Al-Shamayleh, Rodina Ahmad, **Mohammad A. M. Abushariah**, Khubaib Amjad Alam, and Nazeen Jomhari, (2018). A Systematic Literature Review on Vision Based Gesture Recognition Techniques. *Multimedia Tools and Applications*, Springer, Vol. 77, No. 21, pp. 28121-28184.
- 23) Mohammad Tubishat, Norisma Idris, and **Mohammad A. M. Abushariah**, (2018). Implicit aspect extraction in sentiment analysis: Review, taxonomy, opportunities, and open challenges. *Information Processing & Management*, Elsevier, Vol. 54, No. 4, pp. 545-563.
- 24) **Mohammad A. M. Abushariah**, (2017). TAMEEM V1.0: Speakers and text independent Arabic Automatic Continuous Speech Recognizer. *International Journal of Speech Technology*, Springer, Vol. 20, No. 2, pp. 261-280.
- 25) Ala'a Al-shdaifat, Basam Hammo, **Mohammad Abushariah**, and Esra'a Alshdaifat, (2017). Multithreaded Sliding Window Approach to Improve Exact Pattern Matching Algorithms. *International Journal of Advanced Computer Science and Applications*, The Science and Information (SAI) Organization, Vol. 8, No. 1, pp. 431-441.
- 26) Noraziahtulhidayu Kamarudin, S.A.R Al-Haddad, **Mohammad A. M. Abushariah**, Shaiful Jahari Hashim, and Abd Rauf Bin Hassan, (2016). Acoustic echo cancellation using adaptive filtering algorithms for Quranic accents (Qiraat) identification. *International Journal of Speech Technology*, Springer, Vol. 19, No. 2, pp. 393-405.
- 27) **Mohammad A. M. Abushariah**, and Assal A. M. Alqudah, (2016). Automatic Identity Recognition Using Speech Biometric. *European Scientific Journal*, Springer, Vol. 12, No. 12, pp. 43-63.
- 28) Osama Mohammad Rababah, Mohammad Alshraideh, **Mohammad A. M. Abushariah**, Saher Manaseer, and Maged AlQisi, (2016). Optimizing the process of developing E-government website using decision support system. *Scientific Research and Essays*, Vol. 11, No. 10, pp. 104-116.
- 29) Manal AlMaayah, Majdi Sawalha, and **Mohammad A. M. Abushariah**, (2016). Towards an automatic extraction of synonyms for Quranic Arabic WordNet. *International Journal of Speech Technology*, Springer, Vol. 19, No. 2, pp. 177-189.

- 30) Bassam Hammo, Sane Yagi, Omaima Ismail, and **Mohammad Abushariah**, (2016). Exploring and exploiting a historical corpus for Arabic. *Language Resources and Evaluation Journal*, Springer, Vol. 50, No. 4, pp. 839-861.
- 31) Noraziahtulhidayu Kamarudin, S. A. R. Al-Haddad, **Mohammad A. M. Abushariah**, Shaiful Jahari Hashim, Asem Khmag, and Abd Rauf Bin Hassan, (2015). Analysis on Quranic Accents Automatic Identification with Acoustic Echo Cancellation using Affine Projection and Probabilistic Principal Component Analysis. *Indian Journal of Science and Technology*, Vol. 8, No. 32, pp. 1-6.
- 32) **Mohammad A. M. Abushariah**, Assal A. M. Alqudah, Omar Y. Adwan, and Rana M. M. Yousef, (2014). Automatic Heart Disease Diagnosis System Based on Artificial Neural Network (ANN) and Adaptive Neuro-Fuzzy Inference Systems (ANFIS) Approaches. *Journal of Software Engineering and Applications*, Scientific Research Publishing, Vol. 7, No. 12, 1055 – 1064.
- 33) Rana Yousef, Omar Adwan, and **Mohammad A. M. Abushariah**, (2014). Extracting SOA Candidate Software Services from an Organization’s Object Oriented Models. *Journal of Software Engineering and Applications*, Scientific Research Publishing, Vol. 7, No. 9, pp. 770 - 778.
- 34) **Mohammad A. M. Abushariah**, Raja N. Aion, Roziati Zainuddin, Moustafa Elshafei, and Othman O. Khalifa, (2012). “Phonetically Rich and Balanced Text and Speech Corpora for Arabic Language”. *Language Resources and Evaluation Journal*, Springer. Vol. 46, No. 4, pp. 601 – 634.
- 35) **Mohammad Abd-Alrahman Mahmoud Abushariah**, Raja Noor Aion, Roziati Zainuddin, Assal Ali Mustafa Alqudah, Moustafa Elshafei Ahmed, and Othman Omran Khalifa, (2012). Modern Standard Arabic Speech Corpus for Implementing and Evaluating Automatic Continuous Speech Recognition Systems. *Journal of the Franklin Institute*, Elsevier, Vol. 349, No. 7, pp. 2215 – 2242.
- 36) **Mohammad A. M. Abushariah**, Raja N. Aion, Roziati Zainuddin, Moustafa Elshafei, and Othman Khalifa, (2012). Arabic Speaker-Independent Continuous Automatic Speech Recognition Based on a Phonetically Rich and Balanced Speech Corpus. *The International Arab Journal of Information Technology*, Vol. 9, No. 1, pp. 84 – 93.

❖ **Chapter In Book:**

- 1) **Abushariah, Mohammad A. M.**, Zainuddin, Roziati, Alqudah, Assal Ali Mustafa, and Khalifa, Othman Omran, (2011). Arabic Automatic Continuous Speech Recognition Systems. In Khalifa, Othman Omran, Hameed, Shihab A., and Khan, Sheraz (Eds.). *Human Behaviour Recognition, Identification and Computer Interaction*. IIUM Press, Kuala Lumpur, pp. 306 – 316. ISBN 978– 967– 418–156–7.

- 2) **Abushariah, Mohammad A. M.**, Zainuddin, Roziati, Alqudah, Assal Ali Mustafa, and Khalifa, Othman Omran, (2011). Speaker's Variabilities, Technology and Language Issues That Affect Automatic Speech and Speaker Recognition Systems. In Khalifa, Othman Omran, Hameed, Shihab A., and Khan, Sheraz (Eds.). *Human Behaviour Recognition, Identification and Computer Interaction*. IIUM Press, Kuala Lumpur, pp. 298 – 305. ISBN 978–967–418–156–7.
- 3) **Abu Shariah, Mohammad A. M.**, Ainon, Raja Noor, and Khalifa, Othman Omran, (2011). Interactive Voice Response Technology for Telephony System. In Khalifa, Othman Omran, Hameed, Shihab A., and Khan, Sheraz (Eds.). *Human Behaviour Recognition, Identification and Computer Interaction*. IIUM Press, Kuala Lumpur, pp. 213 – 223. ISBN 978–967–418–156–7.
- 4) Alqudah, Assal Ali Mustafa, Zainuddin, Roziati, **Abushariah, Mohammad A. M.**, and Khalifa, Othman Omran, (2011). Automatic Identity Recognition Systems: A Review. In Khalifa, Othman Omran, Hameed, Shihab A., and Khan, Sheraz (Eds.). *Human Behaviour Recognition, Identification and Computer Interaction*. IIUM Press, Kuala Lumpur, pp.192–205. ISBN 978–967–418–156–7.
- 5) **Mohammad A. M. Abushariah**, Raja N. Ainon, Roziati Zainuddin, Bassam A. Al-Qatab and Assal A. M. Alqudah, (2010). Impact of a Newly Developed Modern Standard Arabic Speech Corpus on Implementing and Evaluating Automatic Continuous Speech Recognition Systems. In Lee, G. G., Mariani, J., Minker, W., and Nakamura, S. (Eds.). *Spoken Dialogue Systems for Ambient Environments Proceedings of the Second International Workshop on Spoken Dialogue Systems Technology (IWSDS'10)*, Gotemba, Shizuoka, Japan, Lecture Notes in Computer Science (LNCS), Volume 6392, pages 1 – 12, Springer- Verlag.

❖ **International Conferences:**

- 1) Assal A. M. Alqudah, Mohammad A. M. Alshraideh, Ahmad A. S. Sharieh, Mohammad A. M. Abushariah, Fatima M. D. Quiam, (2023). Arabic Automatic Speech Recognition for Speakers With Speech Disorders: A Comprehensive Review. *IEEE Proceeding of The 11th International Conference on Information Technology*, Amman, Jordan.
- 2) Adel Mohammad, Ja'far Alqatawna, **Mohammad Abushariah**, (2017). Secure Software Engineering: Evaluation of Emerging Trends. *IEEE Proceeding of The 8th International Conference on Information Technology*, Amman, Jordan.
- 3) Noraziahtulhidayu Kamarudin, S.A.R Al-Haddad, **Mohammad A. M. Abushariah**, Shaiful Jahari Hashim, and Asem Khmaj Abd Rauf Bin Hassan, (2015). Comparison of Quranic Accents Automatic Classification with Acoustic Echo Cancellation using Affine Projection and Probabilistic Principal Component Analysis. *4th International Conference on Computer Engineering and Mathematical Sciences (ICCEMS'15)*, Langkawi, Malaysia, pp. 1 – 6.

- 4) Fawaz Ahmad Al-Zaghoul, Amjad Hudaib, **Mohammad Abushariah**, and Assal Alqudah, (2015). A Suggested Framework for Software Requirements Classification. *Proceedings of the IEEE 17th UKSIM-AMSS International Conference on Modelling and Simulation*, Cambridge, UK, pp. 261–264.
- 5) Manal AlMaayah, Majdi Sawalha, and **Mohammad A. M. Abushariah**, (2014). A Proposed Model for Quranic Arabic WordNet. *Proceedings of the 2nd Workshop on Language Resources and Evaluation for Religious Texts*, Reykjavik, Iceland, pp. 9 -13.
- 6) Noraziahtulhidayu Kamarudin, SAR Al-Haddad, Abd Rauf Bin Hassan, and **Mohammad A. M. Abushariah**, (2014). Al-Quran learning using mobile speech recognition: An overview. *Proceedings of the IEEE International Conference on Computer and Information Sciences (ICCOINS 2014)*, Kuala Lumpur, Malaysia, pp. 1 - 6.
- 7) Kyaw Kyaw Htike, Othman O Khalifa, Huda Adibah Mohd Ramli, and **Mohammad A. M. Abushariah**, (2014). Human activity recognition for video surveillance using sequences of postures. *Proceedings of the IEEE Third International Conference on e-Technologies and Networks for Development (ICeND 2014)*, Beirut, Lebanon, pp. 79 - 82.
- 8) **Mohammad A. M. Abushariah**, and Majdi Sawalha, (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. *Second Workshop on Arabic Corpus Linguistics (WACL-2), in conjunction with the Corpus Linguistics 2013 Conference*, United Kingdom.
- 9) Majdi Sawalha, Eric Atwell, and **Mohammad A. M. Abushariah**, (2013). Accelerating the Processing of Large Corpora: Using Grid Computing for Lemmatizing the 176 Million Words Arabic Internet Corpus. *Second Workshop on Arabic Corpus Linguistics (WACL-2), in conjunction with the Corpus Linguistics 2013 Conference*, United Kingdom.
- 10) A. F., Ahmad Khan, O., Mourad, A. M. K. B., Mannan, H. B. A. M., Dahan, and **M. A. M., Abushariah**, (2013). Automatic Arabic Pronunciation Scoring for Computer Aided Language Learning. *IEEE Proceedings of the International Conference on Communications, Signal Processing, and their Applications (ICCSPA'13)*, Sharjah, United Arab Emirates.
- 11) M., Sawalha, E., Atwell, and **M. A. M., Abushariah**, (2013). SALMA: Standard Arabic Language Morphological Analysis. *IEEE Proceedings of the International Conference on Communications, Signal Processing, and their Applications (ICCSPA'13)*, Sharjah, United Arab Emirates.

- 12) A. A. M., Abushariah, T. S., Gunawan, J. Chebil, and **M. A. M., Abushariah** (2012). Voice Based Automatic Person Identification System Using Vector Quantization. *IEEE Proceedings of the International Conference on Computer and Communication Engineering (ICCCE 2012)*, Kuala Lumpur, Malaysia, pp. 549 – 554.
- 13) A. A. M., Abushariah, T. S., Gunawan, J. Chebil, and **M. A. M., Abushariah** (2012). Automatic Person Identification System Using Handwritten Signatures. *IEEE Proceedings of the International Conference on Computer and Communication Engineering (ICCCE 2012)*, Kuala Lumpur, Malaysia, pp. 560 – 565.
- 14) **Mohammad A. M. Abushariah**, Raja N. Ainon, Roziati Zainuddin, Moustafa Elshafei, and Othman O. Khalifa (2010). Phonetically Rich and Balanced Speech Corpus for Arabic Speaker-Independent Continuous Automatic Speech Recognition Systems. *IEEE Proceedings of the 10th International Conference on Information Science, Signal Processing and their Applications (ISSPA 2010)*, 10 – 13 May 2010, Kuala Lumpur, Malaysia.
- 15) **Mohammad A. M. Abushariah**, Raja N. Ainon, Roziati Zainuddin, Moustafa Elshafei, and Othman O. Khalifa (2010). Natural Speaker-Independent Arabic Speech Recognition System Based on Hidden Markov Models Using Sphinx Tools. *IEEE Proceedings of the International Conference on Computer and Communication Engineering (ICCCE 2010)*, 11 – 13 May 2010, Kuala Lumpur, Malaysia.
- 16) **Mohammad A. M. Abushariah**, Raja N. Ainon, Roziati Zainuddin, Othman O. Khalifa, and Moustafa Elshafei (2010). Phonetically Rich and Balanced Arabic Speech Corpus: An Overview. *IEEE Proceedings of the International Conference on Computer and Communication Engineering (ICCCE 2010)*, 11 – 13 May 2010, Kuala Lumpur, Malaysia.
- 17) Ahmad A. M. Abushariah, Teddy S. Gunawan, Othman O. Khalifa, and **Mohammad A. M. Abushariah** (2010). English Digits Speech Recognition System Based on Hidden Markov Models. *IEEE Proceedings of the International Conference on Computer and Communication Engineering (ICCCE 2010)*, 11 – 13 May 2010, Kuala Lumpur, Malaysia.
- 18) Muhannad Al-Naabi, Raja Noor Ainon, and **Mohammad A. M. Abu Shariah** (2009). Arabic Speech Emotion Detection Using Hidden Markov Models. *3rd International Conference on Informatics and Technology 2009*, 27 – 28 October 2009, Kuala Lumpur, Malaysia.
- 19) **Mohammad A. M. Abu Shariah**, Raja N. Ainon, Roziati Zainuddin and Othman O. Khalifa (2007). Human Computer Interaction Using Isolated-Words Speech Recognition Technology. *IEEE Proceedings of the International Conference on Intelligent and Advanced Systems (ICIAS'07)*, 25 – 28 November 2007, Kuala Lumpur, Malaysia.

- 20) **Mohammad A. M. Abu Shariah**, Raja N. Ainon and Othman O. Khalifa (2006). Telephony Speech Recognition System. *IEEE Proceedings of the International Conference on Computer and Communication Engineering (ICCCE'06)*, 9 – 11 May 2006, Kuala Lumpur, Malaysia, pp. 1113 – 1118.
- 21) **M. A. M. Abu Shariah**, R. N. Ainon and O. O. Khalifa (2006). Human Computer Interaction Using Speech Recognition Technology Via Telephone. *IEEE The 6th International Philadelphia Engineering Conference (IPEC'06)*, 19 – 21 September 2006, Amman, Jordan.

REFEREES

Available Upon Request.