

Academic Resume



Hassanin Albarhamtoushy

Professor, Information Technology Department

Contact Information.

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Highest Degree.

1992, Ph.D. Computer Science, Computer Science, Al-Azhar University, Egypt.

Academic and Professional Experiences.

1. **2003 - Present**
Professor in faculty of computing& information technology., Saudi Arabia, King Abdul Aziz University,Jeddah.
2. **1998 - 2003**
Associate professor in computer science department., Jeddah, King Abdulaziz university.
3. **1981 - 1985**
Master Degree in systems and computers engineering, Cairo, Azhar university.
4. **1980 - 1996**
Faculty Member, Egypt, Al Azhar University.
5. **1979 - 1980**
Egyptian Army, , .
6. **1974 - 1978**
B.S. Degree in electronic and communication engineering from Cairo University, in 1978., , .

Research Interests.

Artificial Intelligence: Language and Speech Processing, OCR, Pattern Recognition, Machine Translation, Machine Learning, Speech Processing, BCI, EEG and Signal Processing, Arabic Sign Language.

Teaching Interests.

CPIT 280: Human Computer Interaction, CPIT 380: Multimedia Technologies, CPIT 285: Computer Graphics, CPIT 634: Web and Internet Technologies, CPIT 770: Artificial Intelligent.

Certifications and Trainings.

1. Course Portfolio Preperation.
2. Active Learning.
3. Management of work pressures.
4. Learning to drive.
5. Teaching Methods in Large Groups.

Social, Scientific and Professional Affiliation.

1. -, Engineers Syndicate, Egypt.

Excellence Awards and Patents.

1. 2015, International, Excellence
2. 2023, International, Chief Technical Committee of the 1st International Conference on Advanced Innovations in Smart Cities (ICAISC), IEEE.
3. 2018, International, Language Engineering Award, Egypt.

Funded Projects.

1. 2015, Arabic Optical Character Recognition for Printed Documents, KACST
2. 2021, Cyber Security in Smart City, KAU
3. 2013, Speak Correct, KACST

Publications.

1. Lutfieh S. Al-homed, Kamal M. Jambi, Hassanin M. Al-Barhamtoshy, "A Deep Learning Approach For Arabic Manuscripts Classification", *Sensors*, vol: 23, pp. 8133, 2023.
DOI: [10.3390/s23198133](https://doi.org/10.3390/s23198133)
2. Hassanin M. Al-Barhamtoshy, Khalid K. Abdullah, Muhammed K. Dauda, Tarik F. Himdi, "Detecting Available Parking Spaces In Smart Cities", 2023 1st International Conference On Advanced Innovations In Smart Cities (Icaisc), pp. 1-5, 2023.
DOI: [10.1109/ICAISC56366.2023.10085386](https://doi.org/10.1109/ICAISC56366.2023.10085386)
3. Hassanin M. Al-Barhamtoshy, Hanen T. Himdi, Mohamad Alyahya, "Arabic Pilgrim Services Dataset: Creating And Analysis", 2023 1st International Conference On Advanced Innovations In Smart Cities (Icaisc), pp. 1-8, 2023.
DOI: [10.1109/ICAISC56366.2023.10085561](https://doi.org/10.1109/ICAISC56366.2023.10085561)
4. Hassanin M. Al-Barhamtoshy, Kamal M. Jambi, Mohsen A. Rashwan, Sherif M. Abdou, "An Arabic Manuscript Regions Detection, Recognition And Its Applications For Ocring", *Acm Transactions On Asian And Low-Resource Language Information Processing*, vol: 22, pp. 1-28, 2023.
DOI: [10.1145/3532609](https://doi.org/10.1145/3532609)
5. Hassanin M. Al-Barhamtoshy, Ashraf Said Qutb Metwalli, "Neural Networks For Bilingual Machine Translation Model", 2022 20th International Conference On Language Engineering (Esolec), pp. 84-91, 2022.
DOI: [10.1109/ESOLEC54569.2022.10009266](https://doi.org/10.1109/ESOLEC54569.2022.10009266)
6. Hanen Himdi, George Weir, Fatmah Assiri, Hassanin Al-Barhamtoshy, "Arabic Fake News Detection Based On Textual Analysis", *Arabian Journal For Science And Engineering*, vol: 47, pp. 10453-10469, 2022.
DOI: [10.1007/s13369-021-06449-y](https://doi.org/10.1007/s13369-021-06449-y)
7. Kamal Jambi, Hassanin Al-Barhamtoshy, Wajdi Al-Jedaibi, Mohsen Rashwan, Sherif Abdou, "Speak-Correct: A Computerized Interface For The Analysis Of Mispronounced Errors", *Computer Systems Science And Engineering*, vol: 43, pp. 1155-1173, 2022.
DOI: [10.32604/csse.2022.024967](https://doi.org/10.32604/csse.2022.024967)
8. Lutfieh S. Al-homed, Kamal M. Jambi, Hassanin M. Al-Barhamtoshy, "A Novel Dataset For Known And Unknown Ancient Arabic Manuscripts", 2022 20th International Conference On Language Engineering (Esolec), pp. 60-65, 2022.
DOI: [10.1109/ESOLEC54569.2022.10009168](https://doi.org/10.1109/ESOLEC54569.2022.10009168)
9. Dalal Abdullallah Aljohany, Hassanin M. Al-Barhamtoshy, Felwa Abukhodair, "Arabic Machine Translation (Armt) Based On Lstm With Attention Mechanism Architecture", 2022 20th International Conference On Language Engineering (Esolec), pp. 78-83, 2022.
DOI: [10.1109/ESOLEC54569.2022.10009530](https://doi.org/10.1109/ESOLEC54569.2022.10009530)
10. Latifa Aljiffry, Hassanin Al-Barhamtoshy, Amani Jamal, Felwa Abukhodair, "Arabic Documents Layout Analysis (Adla) Using Fine-Tuned Faster Rcn", 2022 20th International Conference On Language Engineering (Esolec), pp. 66-71, 2022.
DOI: [10.1109/ESOLEC54569.2022.10009375](https://doi.org/10.1109/ESOLEC54569.2022.10009375)
11. Kamal Jambi, Hassanin Al-Barhamtoshy, Wajdi Al-Jedaibi, Mohsen Rashwan, Sherif Abdou, "An Empirical Performance Analysis Of The Speak Correct Computerized Interface", *Processes*, vol: 10, pp. 487, 2022.
DOI: [10.3390/pr10030487](https://doi.org/10.3390/pr10030487)
12. Kamal Jambi, Hassanin Al-Barhamtoshy, Wajdi Al-Jedaibi, Mohsen Rashwan, Sherif Abdou, "An Empirical Performance Analysis Of The Speak Correct Computerized Interface", *Processes*, 2022.

Publications.

13. Hassanin M. Al-Barhamtoshy, Kamal M. Jambi, Mohsen A. Rashwan, Sherif M. Abdou, "An Arabic Manuscript Regions Detection, Recognition And Its Applications For Ocring", *Acm Transactions On Asian And Low-Resource Language Information Processing*, 2022.
14. Hanen Himdi, George Weir, Fatmah Assiri and Hassanin Al-Barhamtoshy, "Arabic Fake News Detection Based On Textual Analysis", *Arabian Journal For Science And Engineering*, 2022.
15. Kamal Jambi, Hassanin Al-Barhamtoshy, Wajdi Al-Jedaibi, Mohsen Rashwan, Sherif Abdou, "Speak-Correct: A Computerized Interface For The Analysis Of Mispronounced Errors", *Computer Systems Science And Engineering*, 2022.
16. Samah Abbas?, Hassanin Al-Barhamtoshy, Fahad Alotaibi, "Towards An Arabic Sign Language (Arsl) Corpus For Deaf Drivers", *Peerj Computer Science*, 2021.
17. Samah Abbas, Hassanin Al-Barhamtoshy, Fahad Alotaibi, "N Towards An Arabic Sign Language (Arsl)N N For Deaf Driversn", *Peerj Computer Science*, vol: 7, pp. e741, 2021.
DOI: [10.7717/peerj-cs.741](https://doi.org/10.7717/peerj-cs.741)
18. Hassanin M. Al-Barhamtoshy, Kamal M. Jambi, Sherif M. Abdou, Mohsen A. Rashwan, "Arabic Documents Information Retrieval For Printed, Handwritten, And Calligraphy Image", *Ieee Access*, vol: 9, pp. 51242-51257, 2021.
DOI: [10.1109/ACCESS.2021.3066477](https://doi.org/10.1109/ACCESS.2021.3066477)
19. Hassanin M. Al-Barhamtoshy, Rania Ahmed Younis, "Dna Sequence Error Corrections Based On Tensorflow", 2020 21st International Arab Conference On Information Technology (Acit), pp. 1-5, 2020.
DOI: [10.1109/ACIT50332.2020.9300094](https://doi.org/10.1109/ACIT50332.2020.9300094)
20. ÝßÑí ĄĹăĹ ÝĂÇĬ ÝßÑí ĄĹăĹ ÝĂÇĬ, "æĹĬÉ äĐá ÇáÊßăæăĹĬÇ áÊÓăĬĐ ÇăăăăĬÉ ÇăÝßÑĬÉ", *Journal Of King Abdul Computing And Information Technology Sciences*, vol: 9, pp. 83-96, 2020.
DOI: [10.4197/Comp.9-1.6](https://doi.org/10.4197/Comp.9-1.6)
21. Saim Rasheed, Hassanin M. Al-Barhamtoshy, Huda Bourhan Saifaddin, Wafaa Shalash, "Assessment Of Vocational Types And Eeg Analysis Using Holland Test Questionnaire", *Airc &Amp;Amp;Amp;#039;&Amp;Amp;Amp;#039;&Amp;Amp;Amp;#039;&Amp;Amp;Amp;#039;19: 2019 International Conference On Artificial Intelligence, Robotics And Control*, pp. 53-60, 2019.
DOI: [10.1145/3388218.3388230](https://doi.org/10.1145/3388218.3388230)
22. K. Jambi, H. Al-Barhamtoshy, A. Fattouh, A. Al-Ghamdi, F. Eassa, M. Khemakhem, "An Open Architecture For Enhancing Performance Of Complex Ocr Applications", 8 (1.11), 2019.
23. Mustafa Abdallah, Abdullah M. Moussa, Sherif M. Abdou, Mohsen Rashwan, Hassanin Al-Barhamtoshy, "Automatic Selection Of Speech Data Based On Confidence Measure", 8 (1.11), 2019.
24. Amr M. Sayed, Sherif Abdou, Mohsen Rashwan, Hassanin Al-Barhamtoshy, "Raner: Rdi Framework For Arabic Named Entity Recognition", 8 (1.11), 2019.
25. Hassanin M. Al-Barhamtoshy, Abdullah S. Al-Ghamdi, "A Comprehensive Framework For Ocr Web Services System For Arabic Calligraphy Documents", 8 (1.11), 2019.
26. Hassanin Al-Barhamtoshy, Kamal Jambi, Hany Ahmed, Shaimaa Mohamed, Mohsen Rashwan, Sherif Abdou, "An Ocr System For Arabic Calligraphy Documents", 8 (1.11), 2019.
27. Hassanin M. Al-Barhamtoshy, Haneen T. 2., Mohamed M. Khamis, Tarik F. Himdi, "Semantic And Sentiment Analysis For Arabic Texts Using Intelligent Model", *Bioscience Biotechnology Research Communications*, vol: 12, pp. 266-274, 2019.
DOI: [10.21786/bbrc/12.2/10](https://doi.org/10.21786/bbrc/12.2/10)
28. Hassanin M. Al-barhamtoshy, Kamal M. 1., Hany 2., Shaimaa Mohamed, Sherif M. Abdo, Mohsen. A. Rashwan3, "Arabic Calligraphy, Typewritten And Handwritten Using Optical Character Recognition (Ocr) System", *Bioscience Biotechnology Research Communications*, vol: 12, pp. 283-296, 2019.
DOI: [10.21786/bbrc/12.2/11](https://doi.org/10.21786/bbrc/12.2/11)

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29. Hassanin M. Al-Barhamtoshy, Nihal E. Abuzinadah, Ahmed 3., Tarik F. 4., Areej A. 5 and, Arwa A. Allinjaw, "Development Of An Intelligent Arabic Text Translation Model For Deaf Students Using State Of The Art Information Technology", Bioscience Biotechnology Research Communications, vol: 12, pp. 338-345, 2019.
DOI: [10.21786/bbrc/12.2/17](https://doi.org/10.21786/bbrc/12.2/17)
30. Shaimaa S. A. Mohamed, Mohsen A. A. Rashwan, Sherif M. Abdou, Hassanin M. Al-Barhamtoshy, "Patch-Based Document Denoising", 2018 International Japan-Africa Conference On Electronics, Communications And Computations (Jac-Ecc), pp. 160-164, 2018.
DOI: [10.1109/JEC-ECC.2018.8679566](https://doi.org/10.1109/JEC-ECC.2018.8679566)
31. Hassanin Al-Barhamtoshy, Fatma Abdelatif, Mohamad ElBarahamtoshy, "Intelligent Traffic Vehicles (Itv) And Road Sign Detection Systems", Journal Of King Abdulaziz University-Computing And Information Technology Sciences, vol: 7, 2018.
DOI: [10.4197/Comp.7-1.1](https://doi.org/10.4197/Comp.7-1.1)
32. Hassanin M. Al-Barhamtoshy, Daa M. Motaweh, "Diagnosis Of Dyslexia Using Computation Analysis", Journal Of Engineering Technology, 2017.
33. Farhan Nashwan, Mohsen Rashwan, Hassanin Al-Barhamtoshy, Sherif Abdou, Abdullah Moussa, "A Holistic Technique For An Arabic Ocr System", Journal Of Imaging, vol: 4, pp. 6, 2017.
DOI: [10.3390/jimaging4010006](https://doi.org/10.3390/jimaging4010006)
34. Amany M. Hesham, Mohsen A. A. Rashwan, Hassanin M. Al-Barhamtoshy, Sherif M. Abdou, Amr A. Badr, Ibrahim Farag, "Arabic Document Layout Analysis", Pattern Analysis And Applications, vol: 20, pp. 1275-1287, 2017.
DOI: [10.1007/s10044-017-0595-x](https://doi.org/10.1007/s10044-017-0595-x)
35. Omar H. Al-Barahamtoshy, Hassanin M. Al-Barhamtoshy, "Arabic Text-To-Sign (Artts) Model From Automatic Sr System", Procedia Computer Science, vol: 117, pp. 304-311, 2017.
DOI: [10.1016/j.procs.2017.10.122](https://doi.org/10.1016/j.procs.2017.10.122)
36. Hassanin M. Al-Barhamtoshy, Abdullah. Al-Ghamdi, "Toward Cloud-Based Mixed Reality E-Learning System", 2017 International Conference On Informatics, Health & Technology (Iciht), pp. 1-6, 2017.
DOI: [10.1109/ICIHT.2017.7899008](https://doi.org/10.1109/ICIHT.2017.7899008)
37. Hassanin M. Al-Barhamtoshy, Daa M. Motaweh, "Diagnosis Of Dyslexia Using Computation Analysis", 2017 International Conference On Informatics, Health & Technology (Iciht), pp. 1-7, 2017.
DOI: [10.1109/ICIHT.2017.7899141](https://doi.org/10.1109/ICIHT.2017.7899141)
38. Hassanin M. Al-Barhamtoshy, "Towards Large Scale Image Similarity Discovery Model", 2016 2nd International Conference On Advanced Technologies For Signal And Image Processing (Atsip), pp. 1-9, 2016.
DOI: [10.1109/ATSIP.2016.7523047](https://doi.org/10.1109/ATSIP.2016.7523047)
39. Hassanin M. Al-Barhamtoshy, Anas Fattouh and George Tsaramirsis, "Student Tracking Model Using Mixed Reality", The 3rd International Conference On Mathematical Sciences & Computer Engineering, 2016.
40. H. Al-Barhamtoshy, M. Khemakhem, K. Jambi, F. Essa, A. Fattouh, A. Al-Ghamdi, "Universal Metadata Repository For Document Analysis And Recognition", 2016 Ieee/Acs 13th International Conference Of Computer Systems And Applications (Aiccsa), pp. 1-6, 2016.
DOI: [10.1109/AICCSA.2016.7945622](https://doi.org/10.1109/AICCSA.2016.7945622)
41. F. Essa, K. Jambi, A. Fattouh, H. Al-Barhamtoshy, M. Khemakhem, A. Al-Ghamdi, "A Fedearthed E-Learning Cloud System Based On Mixed Reality", 2016 Ieee/Acs 13th International Conference Of Computer Systems And Applications (Aiccsa), pp. 1-5, 2016.
DOI: [10.1109/AICCSA.2016.7945820](https://doi.org/10.1109/AICCSA.2016.7945820)

Publications.

42. Ibrahim Abdelaziz, Sherif Abdou, Hassanin Al-Barhamtoushy, "A Large Vocabulary System For Arabic Online Handwriting Recognition", Pattern Analysis And Applications, vol: 19, pp. 1129-1141, 2015.
DOI: [10.1007/s10044-015-0526-7](https://doi.org/10.1007/s10044-015-0526-7)
43. Mohamed Fawzi, Mohsen. A. Rashwan, Hany Ahmed, Shaimaa Samir, Sherif M. Abdou, Hassanin M. Al-Barhamtoushy, Kamal M. Jambi, "Rectification Of Camera Captured Document Images For Camera-Based Ocr Technology", 2015 13th International Conference On Document Analysis And Recognition (Icdar), pp. 1226-1230, 2015.
DOI: [10.1109/ICDAR.2015.7333959](https://doi.org/10.1109/ICDAR.2015.7333959)
44. M. Fawzi, M. Rashwan, H. Ahmed, S. Samir, S. Abdou, H. Al-Barhamtoushy and K. Jambi, "Rectification Of Camera Captured Document Images For Camera-Based Ocr Technology", Icdar'2015, 2015.
45. Hassanin Albarhamtoushy, Kamal Jambi, Fathy Eassa, "An Architecture For Metadata Extractor Of Big Data In Cloud Systems", , vol: Vol. 5, Issue (1), pp. 2187-2191, 2014.
46. Hassanin Albarhamtoushy, "Automation Of Attendances In Classrooms Using Rfid", , vol: Vol. 5, Issue (2), pp. 502-509, 2014.
47. Hassanin Albarhamtoushy, "Designing And Implementing Bi-Lingual Mobile Dictionary To Be Used In Machine Translation", , vol: Vol. 4, Issue (2), pp. 236-247, 2014.
DOI: www.sdiwc.net
48. Hassanin Albarhamtoushy, "A Data Analytic Framework For Unstructured Text", , vol: Vol. 11, Issue (10), pp. 339-350, 2014.
DOI: [lsj1110](https://doi.org/10.7537/jlsj1110), doi:[10.7537/j](https://doi.org/10.7537/j)
49. Hassanin Albarhamtoushy, "Pronunciation Evaluation Model For None Native English Speakers", , vol: Vol. 11, Issue (9), pp. 216-226, 2014.
DOI: [lsj1109](https://doi.org/10.7537/jlsj1109);doi:[10.7537/j](https://doi.org/10.7537/j)
50. Hassanin Albarhamtoushy, "Speak Correct: Phonetic Editor Approach", , vol: vol. 11, Issue (8), pp. 626-640, 2014.
DOI: [lsj1108](https://doi.org/10.7537/jlsj1108);doi:[10.7537/j](https://doi.org/10.7537/j)
51. Kamal Jambi, Hassanin Albarhamtoushy, Wajdi Aljedaibi, Radi Teleb, "Finding New Kpis For Faculty Of Computing And Information Technology At Kau", , vol: 1 No 2, 2013.
52. Hassanin Albarhamtoushy, Mujallid F, "Building Mobile Dictionary System", The International Conference On Digital Information Processing, 2013.
53. Hassanin Albarhamtoushy, "Evaluation Of Arabic Name Entities Recognition System", Thirteen Conference On Language Engineering, vol: ESOLC 2013, 2013.
54. Hassanin Albarhamtoushy, Sherif Abdou, Wasim M. Abdulwasea, "An Advanced System For Arabic Name Entities Recognition", , vol: ESOLEC' 2013, pp. 79-86, 2013.
55. Hassanin Albarhamtoushy, Mohsen Rashwan, Esraa S, Ola A, Amira A, Ashraf H, "Identification Card Recognition Based On Arabic Ocr System", , vol: ESOLEC' 2013, pp. 87-102, 2013.
56. Hassanin Albarhamtoushy, Abdulrahman Altalhi, Abdulfattah Mashat, "Academic Monitoring In Classrooms Using Rfid Technology", The Proceedings Of The International Conference On Digital Information Processing, pp. 204-209, 2013.
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58. Hassanin Albarhamtoushy, "Designing And Implementing Arabic Text-To-Speech (Arts)", , 2010.
59. Hassanin Albarhamtoushy, "Designing And Implementing Arabic Wordnet Semantic-Based", , 2009.