

CURRICULUM VITAE



PERSONAL - DETAILS

NAME: PROFESSOR ISMAIL HMEIDI

ADDRESS:

**FACULTY OF COMPUTER AND INFORMATION TECHNOLOGY
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EDUCATION

**1992 - 1995 Ph.D. OF COMPUTER SCIENCE
ILLINOIS INSTITUTE OF TECHNOLOGY
U.S.A**

**THESIS TITLE: DESIGN AND IMPLEMENTATION OF AUTOMATIC WORD,
AND PHRASE INDEXING FOR INFORMATION RETRIEVAL
WITH ARABIC DOCUMENTS.**

**1986 - 1987 MASTER OF SCIENCE
EASTERN MICHIGAN UNIVERSITY
U.S.A
MAJOR: COMPUTER AIDED DESIGN/COMPUTER AIDED
MANUFACTURING**

**1983 - 1986 BACHELOR OF SCIENCE
EASTERN MICHIGAN UNIVERSITY
U.S.A
MAJOR: COMPUTER SCIENCE
MINOR: MATHEMATICS**

CURRENT RESEARCH INTERESTS

My research interests are centered in information retrieval, natural language processing, e-learning and database systems, data science.

EXPERIENCE

**1987 - 1992 FULL TIME LECTURERS AT THE COMPUTER SCIENCE DEPT.
YARMOUK UNIVERSITY**

IRBID - JORDAN

**1995 - 2009 ASSISTANT PROFESSOR AT COMPUTER INFORMATION
SYSTEMS DEPT. JUST IRBID - JORDAN**

**2001 - 2003 CHAIRMAN OF COMPUTER SCIENCE AND INFORMATION
SYSTEMS DEPT.**

2003 -2005 CHAIRMAN OF COMPUTER SCIENCE DEPT.

2009- 2011 **ASSOCIATE PROFESSOR AT COMPUTER INFORMATION
SYSTEMS DEPT.
JUST IRBID – JORDAN**

2013 – 2016 **CHAIRMAN OF COMPUTER AND INFORMATION
SYSTEMS DEPT.**

2017–2018 **PROFESSOR AT COMPUTER INFORMATION
SYSTEMS DEPT. JUST IRBID - JORDAN**

2018 -Till Now **Dean/Faculty of Computer and Information Technology
Jordan University OfScience and Technology**

PUBLICATIONS IN REFEREED JOURNALS

1. **Hmeidi I**, Kanaan G. and Evens M. “ Design and Implementation of Automatic Indexing for Information Retrieval with Arabic Documents,” **Journal of the American Society for Information Science, USA, Vol. 48, No.10, Oct. 1997, PP. 867-881**
2. **Hmeidi I**, Jabri.Khalil R. and Tubashat A. “ λ type calculus”. Jour. Of math. &Comp.sci, Vol. 12, No. 3, 1999, PP. 231-219.
3. E. El-Qawasmeh and **I. Hmeidi**, “Performance Investigation of Hamming Distance Bit Vertical Counter Applied to Associative Access Methods in Information Retrieval,” **Journal of The American Society for Information Science, USA, Vol. 51, No. 5, Mar. 2000, PP. 427-432.**
4. **I. Hmeidi**, B. Hawashin, and E. El-Qawasmeh, “Performance OF KNN AND SVM Classifiers on Full Word Arabic Article,” **Advanced Engineering Informatics Journal, Netherlands, Vol. 22, No. 1, pp. 106-111, 2008.**
5. Hassan Najadat and **Ismail Hmeidi**, "Web Spam Detection Using Machine Learning in Specific Domain Features', **Journal of Information Assurance and Security, Vol. 3, No. 3 (2008), pp. 220-229.**
6. **Ismail Hmeidi**, Ahmad Dalaleh, “A Prediction Strategy for Decision Making of Remote Procedure Call”, **International Journal of Internet Technology and Secured Transactions (IJITST), UK, 2008.**
7. Amer Al-Badarneh, QussaiYaseen, and, **Ismail Hmeidi**, “A New Enhancement to the R-tree Node Splitting” **Journal of Information Science (JIS), 36(1) 2010, PP. 03-18.**
8. **Ismail I. Hmeidi**, Riyadh F. Al-Shalabi, Ahmad T. Al-Taani, Hassan Najadat and Shaker A. Al- Hazaimah, "A Novel Approach to the Extraction of Roots from Arabic Words Using Bigrams" **Journal of the American Society for Information Science and Technology, Volume 61, Issue 3 (2010), Pages 583 – 591.**
9. Hassan Najadat, Rasha Obeidat, **Ismail Hmeidi**, "Clustering Generalized Instances Set Approaches for Text Classification", **Journal of Information & Knowledge Management (JIKM) 2011.**

10. Abdulrahman Al_Molijy, **Ismail Hmeidi**, and IzzatAlsmadi, "Indexing of Arabic Documents automatically based on lexical analysis", *International Journal of Natural Language Computing (IJNLC)* Vol. 1, No.1, April 2012.
11. Alkhatib, K., Najadat, H., **Hmeidi, I.**, Shatnawi, M.K., Stock Price Prediction Using K-Nearest Neighbor (kNN) Algorithm. **International Journal of Business, Humanities and Technology** 3(3): 32-44 (2013).
12. Mahmoud Al-Ayyoub, **Ismail Hmeidi** and Haya Rababah. Detecting Hand Bone Fractures in X-Ray Images. **Journal of Multimedia Processing and Technologies (JMPT)** 4(3): 155-168, 2013.
13. QussaiYaseen, **Ismail Hmeid** , Extracting the Roots of Arabic Words without Removing Affixes. **Journal of Information Science(JIS)**, 40(3)2014, PP. 376-385.
14. **Ismail Hmeidi**, Amer Al-Badarenah , Abdulrahman Al-Molegi, and Izzat Alsmadi, Improving Image Retrieval Through a Collection of Fast and Simple **Visual Features Extraction. Applied Mathematics & Information Sciences** Letters An International Journal, No. 3, 65-76 (2014).
15. **Ismail Hmeidi**, Hisham A. Shehadeh, Abdalrhman A. Almodawar, Mustafa M. Daraghmeh, "Comprehensive Study on Information Retrieval:Arabic Document Indexing",**Research J. Science and Tech.** 6(2): April- June, 2014, 79-86
16. Hael Al-Bashiri, Amer Al-Badarneh, and **Ismail Hmeidi**, "Recommendations Generating Using Multi Attribute Decision Making", **Saba Journal Of Information technology and Networking**, 2 (1), 14-22, 2014.
17. **Ismail Hmeidi**, Mahmoud Al-Ayyoub, Nawaf Abdulla, Abdalrahman Almodawar, RaddadAbooraig and Nizar Mahyoub, Automatic Arabic Text Categorization: A Comprehensive Comparative Study. **Journal of Information Science (JIS)** 41(1):114-124, 2015.
18. Hassan M. Najadat, **Ismail I. Hmeidi**, Mohammed N. Al-Kabi and Maysa Mahmoud BanyIssa, "Automatic Keyphrase Extractor from Arabic Documents" **International Journal of Advanced Computer Science and Applications (IJACSA)**, 7(2), 2016.
19. **Ismail Hmeidi**, Mahmoud Al-Ayyoub, Nizar A. Mahyoub, Mohammed A.Shehab, "A Lexicon Based Approach for Classifying Arabic Multi-Labelled Text" **International Journal of Web Information Systems** April(2016).
20. **Alaiad, A. Alkhatib, K. Al-Ayyad, M.Hmeidi, I.** A Conceptual Framework of Smart Home Context: An Empirical Investigation, *International Journal of Healthcare Information Systems And Informatics*, 11(3):42-56, July 2016.

21. **Al-Ayyoub, M., Alwajeih, A. and Hmeidi, I.** An extensive study of authorship authentication of arabic articles. *International Journal of Web Information Systems*, 13(1). 2017
22. **Mohammed Q. Shatnawi, Ismail Hmeidi, Anas Shatnawi,** *Software Library Investment Metrics: A new Approach, Issues and Recommendations. International Review on Computer and Software*, V12, No 2, 2017.
23. **Muneer Bani Yassein, Yaser Khamayeh, Ismail Hmeidi, Ahmed Al-Dubai Mohammed Al-Maolegi,"** A New Energy-Efficient Hybrid and Clustering Routing for Wireless Sensor Networks", *International Journal on Communications Antenna and Propagation (IRECAP), SCOPUS (Q1), Volume 7, Issue 3, Pages 5-19, July 2017.*
24. **R Abooraig, S Al-Zu'bi, T Kanan, B Hawashin, M Al Ayoub, I.Hmeidi,** Automatic categorization of Arabic articles based on their political Orientation", *Digital Investigation*, 2018.
25. **Mahmoud Al-Ayyoub, NourAlhudaDamer and Ismail Hmeidi.** Using Deep Learning for Automatically Determining Correct Application of Basic Quranic Recitation Rules. *The International Arab Journal of Information Technology (IAJIT) 15(3A): 620-625, May2018.*
26. **Raddad Abooraig, Shadi AlZu'bi, Tarek Kanan, Bilal Hawashin, Mahmoud Al-Ayyoub and Ismail Hmeidi.** Automatic Categorization of Arabic acrticles Based on Their Political Orientation. *Digital Investigation 25: 24-41, June 2018.*
<https://doi.org/10.1016/j.diin.2018.04.003>

PUBLICATIONS IN Conference Papers:

1. E. El-Qawasmeh and **I. Hmeidi**, "Time Comparison of Popcount Algorithms with a Speedup to Lookup Table," *International Symposium on Information Systems and Engineering*, Las Vegas, Nevada, June 25-28, 2001, PP. 503-509.
2. **Hmeidi I.** "A Logic-Based Framework for Inflected Arabic Words", *Proceedings of the Thirteenth Midwest Artificial Intelligence and Cognitive Science Conference*, Chicago, Illinois, April 13-14, 2002, PP. 143-150.
3. Hassan Najadat, HadeelAmmari, and **Ismail Hmeidi**, "Solving the Constraint Satisfaction Problem Using Genetic Algorithms", *proceeding of The 2008 International Conference on Artificial Intelligence ICAI'08*, Las Vegas, Nevada, USA, July 14-17, 2008.

4. **Ismail Hmeidi**, Musa I. Swedan, and Hassan Najadat, " Intelligent Favorite List by Using kNN and Nave Bayes Classifier", Proceeding of The 2008 International Conference on Semantic Web and Web Services (SWWS'08), Las Vegas, USA, July 14-17, 2008.
5. **Ismail Hmeidi**, and Hassan Najadat, and Ahmed Al-Sha'or, "Application of Genetic Algorithm in Automatic Query Expansion, Proceedings of the 2008 International Arab Conference on Information Technology (ACIT'2008), 16-18 Dec. 2008, Tunisia.
6. Hassan Najadat, Mohammad Kharabsheh, and **Ismail Hmeidi**, "User Constraints in Discovering Association Rules Mining", Proceedings of the 2008 International Arab Conference on Information Technology (ACIT'2008), 16-18 Dec. 2008, Tunisia.
7. **Hmeidi. I**, Amer Al-Badarneh, and Ahmad A. Al-Qtaish, "A New Approach for Automatic Query Expansion", Proceeding of the (14th) International Conference on Business Information Management, Istanbul, Turkey, June 23-24, 2010.
8. Mohammed Q. Shatnawi, **Ismail Hmeidi** and AnasShatnawi, "A New Framework for Software Library Investment Metrics", Proceeding of the Second International Conference on Digital Enterprise and Information Systems (DEIS 2013), Kuala Lumpur, Malaysia, March 4-6, 2013, PP. 200-206.
9. **Ismail Hmeidi**, Mahmoud Al-Ayyoub, Haya Rababah and Zakaria Khatatbeh. Detecting Hand Bone Fractures in X-Ray Images. In the International Conference on Signal Processing and Imaging Engineering (ICSPIE 2013), Tunisia, 2013.
10. **Ismail I. Hmeidi**, Amer Al-Badarneh, Haya Rababah, Noor Abuelrub, and Dua'aAlawad, "A Survey of Text Classification Techniques Using Arabic Text", Proceeding of the Fourth International Conference on Information and Communication Systems (ICICS2013), Irbid, Jordan, 23-25 April, 2013, PP. 43-48.
11. Ahmed Alwajeih, Mahmoud Al-Ayyoub, and Ismail Hmeidi, "On Authorship Authentication of Arabic Articles", Proceeding of the Fifth IEEE International Conference on Information and Communication Systems (ICICS2014), Irbid, Jordan, 1-3 April, 2014.
12. **Ismail Hmeidi**, MaryanYatim, Ala Ibrahim and Mai Abujazouh, "Survey of Cloud Computing Web Services for Healthcare Information Retrieval systems" Proceeding of the International Conference on Computing Technology and Information Management (ICCTIM2014), Islamic Azad University Dubai,UAE, April 9-11, 2104, PP. 291-301.
13. RaddadAbooraig, Ahmed Alwajeih, Mahmoud Al-Ayyoub,**Ismail Hmeidi**, "On the Automatic Categorization of Arabic Articles Based on Their Political Orientation", TheThird International Conference on Informatics Engineering and Information Science (ICIEIS2014), At Lodz University of Technology, Lodz, Poland.

14. Mosab Faqeeh, Mahmoud Al-Ayyoub, Mohammad Wardat, **Ismail Hmeidi** and Yaser Jararweh. ,Topical Search Engine for Internet of Things.In the proceedings of the 11th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2014), 2014.
15. Ala'aOqaily, Mohammad I. Jarrah, Huda Karajeh,Mahmoud Al-Ayyoub and **Ismail Hmeidi**. Localization of Coronary Artery Thrombosis Using Coronary Angiography.the Third International Conference on Informatics Engineering and Information Science (ICIEIS2014), 2014.
16. Nizar Ahmed, Mohammed Shehab, Mahmoud Al-Ayyoub and **Ismail Hmeidi**. Scalable Multi-Label Arabic Text Classification. At the 6th International Conference on Information and Communication Systems (ICICS 2015), 2015.
17. **Ismail Hmeidi**, Majd Al-shalabi and Mahmoud Al-Ayyoub.A Comparative Study of Automatic Text Categorization Methods Using Arabic Text.proceedings of The International Technology Management Conference, Antalya, Turkey, 2015.
18. **Ismail Hmeidi**, Mohammed Khaleel, Hassan Najadat, "Automatic Text Classification: A Comparative Study", Proceedings of the International Computer Sciences and Informatics Conference (ICSIC 2016), pp. 179-189, Amman, Jordan,2016.
19. **Ismail Hmeidi**, Ahmad Al-Aiad, Sama Al-Momani, Mohammad Ibrahim, "A Simple Present and Past Sentences Machine Translation from Arabic Language (AL) to English Language", 2016 International Conference on Engineering & MIS (ICEMIS), Agadir, Morocco, Sep 22-24, 2016, PP.1-7, IEEE
20. Duaa Ekhtoom, Mahmoud Al-Ayyoub, Mohammed Al-Saleh, Mohammad Alsmirat and **Ismail Hmeidi**. A Compression-Based Technique to Classify Metamorphic Malware. In the 13th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA), 2016.
<https://doi.org/10.1109/AICCSA.2016.7945801>.
21. NourAlhudaDamer, Mahmoud Al-Ayyoub and **Ismail Hmeidi**. Automatically DeterminingCorrect Application of Basic Quranic Recitation Rules. In the International Arab Conference on Information Technology (ACIT), 2017.
22. Ghassan Mohsen, Ahmad Al-Aiad, Mahmoud Al-Ayyoub and **Ismail Hmeidi**. On the Automatic Construction of an Arabic Thesaurus. In the 9th International Conference on Information and Communication Systems (ICICS), 2018.
<https://doi.org/10.1109/IACS.2018.8355431>

23. Muneer Bani Yassein, **Ismail Hmeidi**, Farah Shatnawi, Wail Mardini, Yaser Khamayseh. Smart Home is Not Smart Enough To Protect You- Protocols, Challenges and Open Issues. 10th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2019).At: Coimbra, Portugal.,Procedia Computer Science Volume 160, 2019, Pages 134-141
24. Muneer Bani Yassein, **Ismail Hmeidi**, Omar Alzoubi, Walaa Eyadat. A Comprehensive survey how green smart homes can achieve a sustainable world. Conference: ICRIEST 2019, International Congress on Recent Innovations in Engineering, Science and Technology, Point Hotel Taksim, Istanbul, Turkey, 2019At: Istanbul, Turkey, 2019.
25. Muneer BaniYassein, **Ismail Hmeidi**, Yaser Khamayseh, Wail Mardini, Heba Al-Jarrah, DraganaKrstic. Survey on Smart Web Crawler Algorithm Based on Semantic Search Engine. The Fourteenth International Multi-Conference on Computing in the Global Information Technology,ICCGI 2019 June 30, 2019 to July 04, 2019 - Rome, Italy,July 2019.
26. Muneer Bani Yassein, **Ismail Hmeidi**, Haneen shehadeh, Esra'a Masa'deh, Waed Bani Yaseen, Wail Mardini, Yaser Khamayseh, Qanita Bani Baker. Performance Evaluation of Dynamic Double Trickle Timer Algorithm in RPL for Internet of Things.th International Conference on Internet of Things, Big Data and Security (IoT BDS 019),May 2019.
27. Muneer BaniYassein, **Ismail Hmeidi**, Yaser Khamayseh, Mohammad Al-Rousan, Danah Arrabi. Black Hole Attack Security Issues, Challenges & Solution in MANET. International Conference on Computer Science, Engineering and Information Technology (CSEIT-2018), December 2018.

BOOKS:

Computer Literacy for all, Jordan, 1999.

MASTER THESIS DIRECTED:

1. A New Approach of Node Splitting in R-Tree 5/2006
2. A New Approach for Automatic Query Expansion 1/2007.
3. A New Approach for Arabic Root Extraction 1/2007
4. Utilizing XML Database Solutions for Storing MPEG-7 Descriptions2007/08.
5. A New Approach for Automatic Query Expansion Using Genetic Algorithm.2008/01
6. A Novel approach forArabic word root extraction using N-Grams" 10/2008
7. Grammatical Errors-Detection in Arabic Sentences2009/05.
8. Automatic Key Phrase Extraction from Arabic Language Text2012/07

9. Normalizing Different Representations of an Arabic Math Expression Based on a Context Free Grammar (CFG): Toward an Intelligent Math Search Engine 2011/11
10. A new Framework for Software Library Investment Metrics 12/2011
11. An Arabic Text Classification System Based on Genetic Algorithm 2012/05
12. Effective Image Retrieval Strategy Based on fast and Simple Computations for Visual Features Extraction 2012/09
13. Collaborative Recommendation System Improvement Using Multi Attribute Decision Making Method 2012/11
14. A Comparative Study of Automatic Text Categorization Methods Using Arabic Text 2014/01
15. Machine Learning for X-ray Bones Fractures Detection and Classification 2013/08
16. Automatic Authorship Attribution of Arabic Articles 12/2014
17. Automatic Categorization of Arabic Articles Based on Their Political Orientation 12/2014.
18. Topical search engine for cloud computing services 08/2014.
19. Lexicon-based Multi-Label Arabic Text Classification. 7/2015
20. Building an Automatic Thesaurus to Enhance Arabic Information Retrieval System 5/2015.
21. An Energy-Efficient Mechanism in Hierarchical Protocols of Wireless Sensor Networks 5/2015

TEACHING:

1. **UNDERGRADUATE COURSES: INTRODUCTION TO COMPUTER, MS - OFFICE, PROGRAMMING IN BASIC, FORTRAN 77, FORTRAN 90, PASCAL, C, C++, DATA STRUCTURES, INTRODUCTION TO ALGORITHM, DATABASE, INFORMATION TECHNOLOGY, EXPERT SYSTEM, CONCEPTS OF PROGRAMMING LANGUAGES, INFORMATION SYSTEMS, SYSTEM ANALYSIS, MANAGEMENT OF INFORMATION SYSTEMS, E-BUSINESS AND INFORMATION RETRIEVAL**
2. **GRADUATE COURSE: INFORMATION RETRIEVAL, NATURAL LANGUAGE PROCESSING, ADVANCED ALGORITHM AND SPECIAL TOPICS.**

COMMITTEES:

- **Member of Technical Program Committee at the International Arab Conference on Information Technology (ACIT 2001) JUST-Jordan.**
- **Representative of Faculty of Computer and Information Technology in the University Council.**
- **Member of CIS Dept. for Accreditation Board for Engineering and Technology (ABET) Committee.**
- **Reviewer for several prestigious journals and conferences**
- **Coordinator of CIS Dept. for Employment and promotion Committee.**
- **Member of Curriculum Committee for CS and CIS Department.**
- **Representative of CIS Department in the Faculty of CIT Council.**
- **Trainer and lecturer for retired personnel from the Army as part a Jordanian program to enhance computer skills among citizens.**
- **Member of the Scientific Research Committee.**
- **Member of the Study Schedule Committee.**
- **Promotion/appointment committee coordinator.**
- **Member of the Graduate Studies Committee in CS Dept.**
- **Member of the Graduate Studies Committee in CS Dept. at AlBayati Univ.**
- **Reviewer for promotional applications.**

REFERENCES

Available upon request.