
Hassan Mohammad Najadat, Associate Professor, Department of Computer Information Systems

**CONTACT &
PERSONAL
INFORMATION**

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 DOB: March 06, 1971.
 Research Gate: https://www.researchgate.net/profile/Najadat_Hassan
 Google Scholar: https://scholar.google.com/citations?user=dKGnT_EAAAAJ&hl=en
 LinkedIn: <https://www.linkedin.com/in/hassan-najadat-38a84a61/>

BRIEF BIOGRAPHY

I joined Jordan University of Science and Technology (JUST) as an assistant professor of Computer Science in 2005 and became an associate professor in 2011. I spent from the fall of 2011 to spring 2014 as a visiting professor in the Department of Computer science, Taif University, KSA. Currently, I am working at Department of Data Science at Princess Sumaya University for Technology, Jordan for a sabbatical leave. I earned a Ph.D. in Computer Science from North Dakota State University, ND, USA in 2005. My research interests are in artificial intelligence and data science including data mining approaches, machine learning, and data analysis with emphasis on applying different analyzing approaches in the health sector, information systems, and data envelopment analysis. The health sector provides valuable data sets that were used to extract robust models that are able to help physicians in their treatment policy. Many papers were published in analyzing data sets for breast cancer, kidney diseases, brain damage, and heart diseases. The data envelopment analysis was utilized in different fields including website evaluation, higher education units, and health units

| | <u>School</u> | <u>Degree</u> | <u>Date</u> |
|------------------|---|---------------|---------------|
| EDUCATION | North Dakota State University (NDSU), USA | Ph.D. in CS | May 13, 2005 |
| | University of Jordan, JORDAN | MS. in CS | June 20, 1999 |
| | Mut'ah University, JORDAN | BS in CS | May 9, 1993 |

| | <u>Employer</u> | <u>Rank</u> | <u>Beginning</u> | <u>Ending</u> |
|-------------------|---|------------------------|------------------|---------------|
| EMPLOYMENT | Data Science Department Princess Sumaya University for Technology (PSUT), Amman, Jordan. | Associate Professor | Sep. 15, 20 | Present |
| | Dept. of CIS, JUST, Jordan | Associate Professor | June 2011 | Present |
| | Department of CS, Taif University, Taif, KSA Sabbatical Leave at Taif University | Associate Professor | Sep. 2011 | Sep. 2014 |
| | Department of CIS JUST, Jordan | Assistant Professor | Jul. 05 | Jun. 2011 |
| | Dept. CS JUST, Jordan | Adjunct | Sep. 06 | Present |
| | Department of CS & IS JUST, Jordan. | Full Time Lecturer | Jan. 2000 | Feb. 02 |

| | | | |
|--|----------------------------|------------|----------|
| Dept. of CS North Dakota State University (NDSU), USA | Teaching Assistant | Sep. 03 | Jan. 05 |
| Faculty of Economics and Administrative Sciences. Yarmouk University, Irbid, Jordan. | Lab Computer Supervisor | Oct. 5, 95 | Oct. 99 |
| Jordan Customs, Ministry of Finance, Jordan. Jordan Customs, Ministry of Finance, Jordan. | Programmer | Oct.15,94 | Oct.5,95 |

TEACHING

I taught many courses in different universities including Jordan University of Science and Technology (JUST), New York Institute of Technology-Amman Campus (NYiT), Taif University-KSA (TU), and Princess Sumaya University for Technology –Jordan (PSUT).

COURSES TAUGHT

Undergraduate Level Courses

CIS328/CIS228 Database Systems, JUST
 CS 362 Artificial Intelligence, JUST
 CIS 429/321 Data Mining, JUST
 CIS 493 Special Topics , JUST
 CIS 390 Field Training, JUST
 CIS 491/492 Graduation Project I, II, JUST
 CS116 Selected Programming Languages, JUST
 CS115 C++ Programming Language, JUST
 CSCI260 Data Structure, NYiT
 CSCI 300 Database Systems, NYiT
 CSCI180 Computer Programming II, NYiT
 502312 Software Engineering, TU
 502211 System Analysis & Design, TU
 502422 Information Management System, TU
 502425 Decision Support Systems, TU
 501124 Computer Programming 2, TU
 502241 Fundamentals of Databases, TU
 Data Engineering, PSUT
 Intro to Computer Science, PSUT

Graduate Level Courses

CS728 Advanced Database Systems, JUST
 CS762 Advanced Artificial Intelligence, JUST
 CS729 Advanced Methods in Data Mining, JUST
 CIS722 Data Analytics, JUST
 CSCI760 Database Systems, NYiT
 CSCI731 Compiler Theory, NYiT
 MIST720 Database Management Systems, NYiT
 CSCI606 Distributed Systems, NYiT
 Research Methodology Seminar, PSUT

PRINCIPLE PUBLICATIONS

1. Hassan Najadat, Mohammad A. Alzubaidi, and Islam Qarqaz. 2021. Detecting Arabic Spam Reviews in Social Networks Based on Classification Algorithms. ACM Trans. Asian Low-Resour. Lang. Inf. Process. 21, 1, Article 11 (January 2022), 13 pages. DOI:<https://doi.org/10.1145/3476115>
2. Amal Alzu'bi, Hassan Najadat, "A New Approach for Detecting Eosinophils in the Gastrointestinal Tract and Diagnosing Eosinophilic Colitis", The International Arab Journal of Information Technology, Vol. 18, No. 4, July 2021.
3. Alzu'bi, A., Najadat, H., Doulat, W. et al. Predicting the recurrence of breast cancer using machine learning algorithms. Multimed Tools Appl 80, 13787–13800 (2021). <https://doi.org/10.1007/s11042-020-10448-w>
4. Al-Hawari, A., Najadat, H. & Shatnawi, R. Classification of application reviews into software maintenance tasks using data mining techniques. Software Quality Journal 29, 667–703 (2021). <https://doi.org/10.1007/s11219-020-09529-8>.
5. Hassan Mohammad Najadat, Mais Tawalbeh, Rasha Awawdeh, "Fake News Detection for Arabic Headlines-Articles News Data Using Deep Learning" accepted to appear at International Journal of Electrical and Computer Engineering (IJECE).
6. Hassan Najadat, Ibrahim Al-Daher, Khaled Alkhatib, "Performance Evaluation of Industrial Firms Using DEA and DECORATE Ensemble Method", International Arab Journal of Information Technology, vol. 17, no. 5, 2020.
7. Hassan Najadat, Amer Al-Badarnah, Sawsan Alodibat, "A Review of Website Evaluation Using Web Diagnostic Tools and Data Envelopment Analysis", Bulletin of Electrical Engineering and Informatics (BEEI), Vol 10, No 1: February 2021.
8. H. Najadat, Q. Althebyan and Y. Al-Omary, "Higher Education Units Assessment Based on Data Envelopment Analysis and Clustering Techniques," 2019 International Arab Conference on Information Technology (ACIT), Al Ain, United Arab Emirates, 2019, pp. 171-177.
9. H. Najadat, A. Badarneh and S. Alodibat, "A Hybrid Model of Ensemble Method and Data Envelopment Analysis (DEA) for E-government Websites Efficiency Evaluation," 2019 International Arab Conference on Information Technology (ACIT), Al Ain, United Arab Emirates, 2019, pp. 182-187.

10. I. Hmiedi, H. Najadat, Z. Halloush and I. Jalabneh, "Semi Supervised Prediction Model in Educational Data Mining," 2019 International Arab Conference on Information Technology (ACIT), Al Ain, United Arab Emirates, 2019, pp. 27-31.
11. Hassan Najadat, Ahmad Alaiad, Sanaa Abu Alasal, Ghadeer Mrayyan, Izzat Alsmadi, Integration of Data Envelopment Analysis and Clustering Methods, Journal of Knowledge Management submission system (JIKM), vol. 19, no. 1, 2020.
12. Ahmad Alaiad, Hassan Najadat, Belal Mohsen, Khaled Balhaf, Classification and association-rule mining technique for predicting chronic kidney disease, Journal of Knowledge Management submission system (JIKM),), vol. 19, no. 1, 2020.
13. Hassan M. Najadat ; Ahmad A. Alshboul ; Abdullah F. Alabed, Arabic Handwritten Characters Recognition using Convolutional Neural Network, 10th International Conference on Information and Communication Systems (ICICS), Jordan, 2019.
14. Ahmad Alaiad ; Hassan Najadat ; Nusaiba Al-Mnayyis ; Ashwaq Khalil, Associative Classification of the Jordanian Hospitals Efficiency Based on DEA, IEEE Conference on Big Data and Analytics (ICBDA), Langkawi Island, Malaysia, 2018.
15. Hassan Najadat ; Amnah Al-Abdi ; Yasmeen Sayaheen, Model-based sentiment analysis of customer satisfaction for the Jordanian telecommunication companies, 9th International Conference on Information and Communication Systems (ICICS), Jordan, 2018.
16. Hassan Najadat and Ftoon Abushaqra, "Multimodal Sentiment Analysis of Arabic Videos," Journal of Image and Graphics, Vol. 6, No. 1, pp. 39-43, June 2018. doi: 10.18178/joig.6.1.39-43.
17. Hassan Najadat, Qutaibah Althebyan, Abedallah Khamaiseh, Mohammad Al-Saad and Ahmad Al Rawashde, "Efficiency Analysis of Health Care Centers Using Data Envelopment Analysis", The International Journal of E-Learning and Educational Technologies in the Digital Media (IJEETDM), 4(1), 2018.
18. Hassan Najadat ; Amer Al-Badarneh ; Rasha Al-Huthaifi ; Assia Abo-Zaitoon ; Yasmin Al-Omary, Evaluating Jordanian universities' websites based on data envelopment analysis, 8th International Conference on Information and Communication Systems (ICICS), Irbid, Jordan, 2017.
19. Amer Al-Badarneh ; Hassan Najadat ; Salah Rababah, Performance evaluation of bloom filter size in map-side and reduce-side bloom joins, 8th International Conference on Information and Communication Systems (ICICS), Irbid, Jordan, 2017.
20. Hassan Najadat, Assem Alhawari, Huthifh Al_Rushdan, "Data Mining Classification Approaches for Malicious Executable File Detection", (CSCEET 2017), Beirut, Lebanon, 2017.
21. Hassan Najadat, Qutaibah Althebyan, Abedallah Khamaisehy, Mohammad Al-Saady and Ahmad Al Rawashdehy, "Efficiency Analysis of Health Care Centers Using Data Envelopment Analysis", (CSCEET 2017), Beirut, Lebanon, 2017.
22. Hassan Najadat, Amer Al-Badarneh, Rasha Al-Huthaifi, Assia Abo-Zaitoon, Yasmin Al_Omary, "Evaluating Jordanian Universities' Websites Based on Data Envelopment Analysis", 8th ICICS, Irbid, Jordan, 2017.
23. Amer Al-Badarneh, Hassan Najadat, Salah Rababah, "Performance Evaluation of Bloom Filter Size in Mappings and Reduce-side Bloom Joins", 8th ICICS, Irbid, Jordan, 2017.
24. Hassan Najadat, Nawaf Abdulla, Raddad Abooraig, Shehabeddin Nawasrah, "Spam Detection for Mobile Short Messaging Service Using Data Mining Classifiers", International Journal of Computer Science and Information Security, 14(8), pp. 511-517, 2016.
25. Amer Al-Badarneh ; Hassan Najadat ; Majd Al-Soud ; Rasha Mosaid, Phoenix: A MapReduce implementation with new enhancements, 7th International Conference on Computer Science and Information Technology (CSIT), Turkey, 2016.
26. Hassan Najadat, Amer Al-Badarneh, Huda Qawasmi, "Accreditation Software for Higher Education Programs", 15th ITHET, Istanbul, Turkey, 2016.
27. Amer Al-Badarneh, Amnah Al- Abdi, Sana'a M. Al-Shboul, Hassan Najadat, "Survey of Similarity Join Algorithms based on MapReduce", MATTER: International Journal of Science and Technology, 2(1), 214-234, 2016.
28. Amer Al-Badarneh, Mohammed Al-Rudaini, Faisal Ali, Hassan Najadat, "Index-Based Join in MapReduce Using Hadoop Map Files", MATTER: International Journal of Science and Technology, 2(1), 200-213, 2016.
29. Amer Al-Badarneh, Ghaith Husari, Hassan Najadat, "A Model for Managing Medical Image Data on the Cloud", LIFE: International Journal of Health and Life-Sciences, 2(3), 18-25, 2016.
30. Amer Al-Badarneh, Hassan Najadat, Majd Al-Soud, Rasha Al-Huthaifi, "Phoenix: A MapReduce Implementation with New Enhancements", Proceedings of 7th International Conference on Computer Science and Information Technology (CSIT), 2016.
31. Amer Al-Badarneh, Hassan Najadat, Nawaf Abdulla, Abdalrhman Almodawar, Ghassan Mohsen, "A Survey of Indexing Schemes in Cloud Data Management", Proceedings of 7th International Conference on Computer Science and Information Technology (CSIT), 2016.
32. Mohammed I. Khaleel, Ismail I. Hmeidi, and Hassan M. Najadat. An Automatic Text Classification System Based on Genetic Algorithm. In Proceedings of the The 3rd Multidisciplinary International Social Networks Conference on SocialInformatics 2016, Data Science 2016.
33. 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.

34. I Alsmadi, H Najadat, I Al-Oqily, "Evaluating the importance of the weight factors in DEA optimization", *International Journal of Data Science* 1 (2) 2015, 172-188.
35. Amer Al-Badarneh, Ali Alrazqi, Hassan Najadat, "Performance Impact of Texture Features on MRI Image Classification", Istanbul, The International Conference on Engineering & MIS (ICEMIS2015), Turkey, 24-26 September, 2015
36. H Najadat, A Rawashdeh, "Concept Extraction from Arabic Text Based On Semantic Analysis", The International Technology Management Conference (ITMC2015), May, 26-28, 2015 Antalya, Turkey.
37. Hassan Najadat, Yasser M. Jaffal, Basel A. Mahafzah, Safwan S. Al-Omar, "A New Fine-Grained Multithreaded Game Engine Approach", *International Journal of Modelling and Simulation*, 2014.
38. Hassan M. Najadat, Mohammed Al-Maolegi, Bassam Arkok, "An Improved Apriori Algorithm for Association Rules", *International Research Journal of Computer Science and Application* Vol. 1, No.1, June 2013, PP: 01 – 08.
39. Khaled Khateb, Hassan Najadat, et al, "Stock Price Prediction using k-Nearest Neighbors (kNN) Algorithm", *International Journal of Business, Humanities and Technology*, Vol 3, No 3(2013). Pages 32-44.
40. Hassan Najadat, Izzat Alsmadi, and Yazan Shboul, "Predicting Software Projects Cost Estimation Based on Mining Historical Data", *ISRN Software Engineering*, Volume 2012.
41. Izzat Alsmadi and Hassan Najadat, "Evaluating the Change of Software Fault Behavior with Dataset Attributes Based on Categorical Correlation", *Advances in Engineering Software*, Volume 42, Issue 8 (2011), Pages 535-546.
42. Hassan Najadat and Izzat Alsmadi, "Enhance Rule Based Detection for Software Fault Prone Modules", *International Journal of Software Engineering and Its Applications IJSEIA*, Volume 5, No. 3 (2011).
43. Hassan Najadat, Shatnawi Amani, Obiedat Ghadeer, "A New Perfect Hashing and Pruning Algorithm for Mining Association Rule", *Communications of the IBIMA Journal*, Volume 2011 (2011).
44. Hassan Najadat, Rasha Obeidat, Ismail Hmeidi, "Clustering Generalized Instances Set Approaches for Text Classification", *Journal of Information & Knowledge Management (JIKM)*, Vol. 10, No. 1 (2011), Pages 91-107.
45. Ismail I. Hmeidi, Riyad F. Al-Shalabi, Ahmad T. Al-Taani, Hassan Najadat and Shaker A. Al-Hazaimeh, "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.
46. 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), Pages 220-229.
47. Hassan Najadat, "A New Approach for Recoverable Timestamp Ordering Schedule", *Special Journal Issue of World Academy of Science, Engineering and Technology Journal*, Volume 13, No. 26 (2006), Pages 131-135.
48. Imad Rahal, Hassan Najadat, and William Perrizo, "Efficiency Considerations for Vertical kNN Text Categorization", *Journal of Information & Knowledge Management (JIKM)*, Vol. 5, No. 3 (2006), Pages 211-222.
49. A. Al-Badarneh, H. Najadat, A. M. Alraziqi, "A Classifier to Detect Tumor Disease in MRI Brain Images", *ASONAM*, 2012, 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2012, pp. 784-787, doi:10.1109/ASONAM.2012.142
50. Hassan Najadat, Yasser Jaffal, Omar Darwish, Niveen Yasser, "A Classifier to Detect Abnormality in CT Brain Images, The 2011 IAENG International Conference on Data Mining and Applications, Pages 374- 377, Hong Kong, March 16-18th 2011.
51. Hassan Najadat, Izzat Alsmadi, "DEA based decision support system for public hospitals in Jordan", 16th IBIMA Conference on Innovation and Knowledge Management Kuala Lumpur, Malaysia 29-30 June 2011
52. Hassan Najadat, Izzat Alsmadi, "An Interactive DEA Based Management System for Hospitals", The 2011 IAENG International Conference on Industrial Engineering, Pages 1157-1161, 2011, Hong Kong, March 16-18th 2011.
53. Hassan Najadat, Izzat Alsmadi and Isra' Abu-jazouh, "Using Data Envelopment Analysis to Evaluate Productivity of Public Hospitals In Jordan", 8th International Conference on Data Envelopment Analysis Performance Management and Measurement, AUB, Beirut, Lebanon, June 10-12th 2010.
54. Qusai Abuein, Hassan Najadat, Wedian Sana, Deya Alzoubi, "A New Efficient KEA Based Approach for E-mail Spam Detection", The International Arab Conference on Information Technology, University of Science and Technology, Yemen, December 15-17th 2009.
55. Hassan Najadat, Qusai Abuein, Mohammed Abu-Rahmeh, "A New Approach for Solving Constraint Satisfaction Problems: Coloring Problem Using Non-Adjacent Lists", *Proceedings of International Conference of Software Engineering & Computer Systems 2009 (ICSECS '09)*, Pahang, Malaysia, October 19-21st 2009
56. Hassan Najadat, Mohammed Aref Diab, Izzat Alsmadi, "A General-Domain Application for implementing the Case-Based Reasoning", *Proceedings of International Conference of Software Engineering & Computer Systems 2009 (ICSECS '09)*, Pahang, Malaysia, October 19-21st 2009.
57. Hassan Najadat and Mohammad Kharabsheh, "User Constraints in discovering Association Rules Mining", *Proceedings of International Arab Conference on Information Technology (ACIT'2008)*, University of Sfax, Tunisia, December 16-18th 2008.
58. Ismail I. Hmeidi, Hassan M. Najadat, Ahmed J. Al-Sha'or, "Application of Genetic Algorithm In Automatic Query Expansion", *Proceedings of International Arab Conference on Information Technology (ACIT'2008)*, University of Sfax, Tunisia, December 16-18th 2008.

59. Hassan Najadat, Hadeel Ammari, and Ismail Hmeidi, "Solving the Constraint Satisfaction Problem Using Genetic Algorithms", Proceedings of The 2008 International Conference on Artificial Intelligence ICAI'08, USA, July 14-17th 2008.
60. Izzat Alsmadi and Hassan Najadat, "Using Xml Trees To Represent GUI States", Proceedings of The 2008 International Conference on Software Engineering Research and Practice (SERP 08) , USA, July 14-17th 2008.
61. Ismail Hmeidi, Musa I. Swedan, and Hassan Najadat, " Intelligent Favorite List by Using kNN and Nave Bayes Classifier", Proceedings of The 2008 International Conference on Semantic Web and Web Services (SWWS'08), USA, July 14-17th 2008.
62. Hassan Najadat, Kendall E. Nygard, and Doug Schesvold, "Clustering-Based Method for Data Envelopment Analysis", Proceedings of The 2005 International Conference on Modeling, Simulation and Visualization Methods, {MSV} pp. 255—264, Las Vegas, Nevada, USA, June 27-30, 2005.
63. Imad Rahal, Dongmei Ren, Amal Perera, Hassan Najadat, William Perrizo, Riad Rahhal, and Willy Valdivia, "Incremental Interactive Mining of Constrained Association Rules from Biological Annotation Data with Nominal Features", Proceedings of the ACM SAC, Symposium on Applied Computing (Santa Fe, New Mexico), Pages 123-127, March 13-17th, 2005.
64. "Constraint-Based Clustering Procedure for Data Envelopment Analysis. North Dakota State University (PhD. dissertation), May 13th 2005.

SUBMITTED PAPERS

65. Hassan Najadat, Ahmad Alaiad, Yarub Wahsheh, "Lex-Spam: Lexicons-Spam Hybrid System to Evaluate the Spam of Population Arabic Hashtags in Twitter Social Network" SUBMITTED to Journal of King Saud University - Computer and Information Sciences
66. Roqayah Al-Ibrahim Hassan Najadat Mostafa Ali, "Detection of Hateful Social Media Content for Arabic Language", submitted to Social Network Analysis and Mining.

BOOKS

1. Najadat H., Ebrahim M., Alsmirat M., Shatnawi O., Al-Rashdan M.N., Al-Aiad A. (2021) Investigating the Classification of Human Recognition on Heterogeneous Devices Using Recurrent Neural Networks. In: Ahad M., Paiva S., Zafar S. (eds) Sustainable and Energy Efficient Computing Paradigms for Society. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-51070-1_4.
2. [2015] Classification of brain diseases using MRI texture: Decision Tree and Genetic Algorithm, by Ali Al-Raziqi, Amer Al-Badarneh, Hassen Najadat, Publisher: VDM Verlag
3. [2009] Mining Data Envelopment Analysis using Clustering Approach: for Heterogeneous Decision Making Units by **Hassan Najadat**, Publisher: VDM Verlag.

FUNDED PROJECTs and PROFESSIONAL DEVELOPMENT ACTIVITIES

1. Jordan Opportunity for Virtual Innovation Teaching and Learning (JOVITAL), Duration: 2017-2020, Amount: €999,901, Funded by: European Union (ERASMUS+)
2. Erasmus+ JOVITAL PROJECT- Jordan opportunity for virtual innovative teaching and learning - Academic Staff Training on Virtual Collaborative Learning (VCL), Princess Sumaya University for Technology (PSUT), Jordan, oct.3rd -5th Oct. 2019.
3. Erasmus+ JOVITAL PROJECT- attending Workshop at Centre for Global Learning: Education and Attainment (GLEA), Coventry University, UK, Sept. 2nd – Sept. 6- 2019.
4. Erasmus+ JOVITAL PROJECT- attending Workshop at Technische Universität Dresden, Germany. April 25-27, 2018.
5. EU TEMPUS PROJECT (ICT-LEAP) Workshop, Dortmund University of Technology, Germany. [February 12-15th 2009]
6. EU TEMPUS PROJECT (ICT-LEAP) Workshop, Umeå University, Sweden, [June 16-18th 2009]

MASTER THESIS DIRECTED

1. Mining Association Rules Based on User Defined Constraints, [Mohammad Kharabsheh, Dept. of Computer Science, J.U.S.T, [May-2007]
2. Automatic Concept Extraction from Arabic Text, [Ahmad Yousef Rawashdeh, Dept. of Computer Science, J.U.S.T, [December- 2008]
3. Text Classification improvement by combining Multilevel Clustering into kNN, [Rasha Obeidat, Dept. of Computer Science, J.U.S.T, [January-2009]
4. Design and Implementation of a Dynamic Multithreaded Game Engine for Multicore Processors, [Yasser Mousa Jaffal, Dept. of Computer Science, J.U.S.T, [December -2010]
5. Software Prototyping from UML Diagrams Using Language-Independent User Interfaces, [Amani Moh'd Shatnawi, Advisor Dr. Raed Shatnawi, Co. advisor Dr. Hassan Najadat, [June-2010]
6. Applying Data Mining for Software Cost Estimation Using a Classification Model, [Yazen Shboul, Dept. of Computer Science, J.U.S.T, 2011]
7. Building an Optimized MRI Brain Images Classifier Based on Hybrid Intelligent Techniques, [Ali Alrazgi, Advisor Dr. Amer Bdarneh, Co advisor Dr. Hassan Najadat Dept. of Computer Science, J.U.S.T, 2012]

8. Automatic key Phrase Extraction from Arabic Language Text [Missa Bany Essa, Advisor Dr. Ismail Hmeidi, Co. advisor Dr. Hassan Najadat, July 2012]
9. Accreditation System for Educational Programs [Huda Hani Qawasmi, Advisor Dr. Hassan, Co advisor Amer, 2016].
10. Clustering analysis for evaluating efficiency of higher educational institutions [Bushra Alza'arer, Advisor Dr. Hassan, 2016].
11. Classification Approaches for Jordanian Universities with Data Envelopment Analysis [Yasmen Omari, Advisor Dr. Hassan 2017].
12. An Automated Approach for Optimizing the Service Broker Routing Policy based on Bat Algorithm [Huda Daradkeh, Co- Advisor Dr. Hassan 2017].
13. A constraint association rule mining for automated detection of cardiovascular diseases [Hadeel Arayedah, Advisor Dr. Hassan 2017].
14. A Hybrid Approach of Data Envelopment Analysis and Ensemble Methods for Performance Evaluation of Industrial and Services firms in Jordan, [Ibraheem Mansi, Advisor Dr. Hassan 2017].
15. Classification of Application Reviews into Software Engineering's Maintenance Tasks Using Data Mining Techniques, [Asem Alhawari, Advisor Dr. Hassan, 2018].
16. A Hybrid Model of Machine Learning (ML) and Data Envelopment Analysis (DEA) for E-government Websites Efficiency Evaluation, [Sawsan Aloaidbat, Advisor Dr. Hassan 2019].
17. Developing a Breast Cancer Dictionary Using Natural Language Processing (NLP), [Wessam Dolat, Advisor Dr. Hassan, 2019].
18. A new approach for the detection of eosinophils in the gastrointestinal tract and the diagnosis of eosinophilic colitis, Wala Eiadat, Co- Advisor Dr. Hassan, 2020]

Examination Committee for Master Thesis

1. A data reduction Technique for association rule mining, [Mohammed Z. Zakaria, Advisor: Dr. Basel Mahafzah, 17-8-2006]
2. An efficient Spatial Index Structure, [Mustafa Ali Tawil, Advisor: Dr. Amer Al-Badarneh 14-8-2006]
3. Multi-Small Index (MSI): a special Indexing Structure Using Threshold-Based Dynamic Recursive Space Partitioning, [Abdulla Salem Al-Alaj, Advisor: Dr. Amer Al-Badarneh Amer Al-Badarneh August 2006]
4. A novel Approach for Arabic words roots extraction using N-Grams, [Shaker Ali Al-Hazaimah, Advisor: Dr. Ismail Hmeidi, 27-10-2008]
5. A new approach for automatic query expansion using genetic algorithm, [Ahmed Jaber Al-Sha'or Advisor: Dr. Ismail Hmeidi, 4-2-2008]
6. Expanding the grammar of equivalence rules (GER) for mathematical search, [Fatima Mousa Quiam, Advisor: Dr. Mohammad Shatnawi, 14-6-2009]
7. Enhancement of keywords extraction from databases Ossama Abo Eid Dr. Eyas El-Qawasmeh April 2009
8. Rule-Based Computerization of Advanced Tajweed, [Rules Huda Azzeh, Advisor: Dr. Ismail Ababneh, Co. Advisor: Dr. Hassan Najadat]
9. Grammatical errors detection in Arabic sentences, [Sana'a Al-Zghoal, Advisor: Dr. Ismail Hmeidi, 5-7-2009].
10. Decentralized Fuzzy Scheduling from Target Tracking Using Wireless Sensor Networks, [Abedlkarim Saleh Alenazi, Advisor Dr. Yahya Tashtoush, March/2010]
11. Arabic Summarization System With Single And Multi-Word Terms, [Khalid Ibrahim Jamal Al Khatib , Advisor Dr. Amer Al-Badarneh, December, 2010]

ACADEMIC AWARDS & HONORS

- | | |
|--------------------|---|
| 1/02 – 5/05 | A scholarship from Jordan University of Science and Technology to obtain a Ph. D. degree in Computer Science from North Dakota State University, USA. |
| 9/89 – 6/93 | A scholarship from Jordan Government to obtain a B. S. degree in Computer Science from Mut'ah University- Jordan. |

FUNDED PROJECTS AND GRANTS:

- | | |
|-------------|---|
| 2009 | Measuring Jordanian Hospitals' Efficiency through Mining Development Analysis, Ministry of Higher Education and Scientific Research, Jordan 20,000 J.D |
| 2006 | Constraint clustering method for measuring the efficiency of educational units in Jordan, Deanship of Research, JUST, Jordan, 1700 J.D. |
| 2009 | European Union TEMPUS Project titled "ICT Learning Pentagram", We were a partner among the following universities: University Of Umea, Sweden, Al Quds University, Palestine Polytechnic University, Universität Dortmund, Germany. €391,693. |
| 2019 | Brain Tumor Segmentation from MRI Images Based on Deep Learning Techniques |

SKILLS:

- a. Programming Languages: C#, C/C++, PHP, VB, HTML, FORTRAN, Lisp, and Prolog.
- b. Microsoft Packages (Word, Excel, PowerPoint, Access)
- c. Operating Systems: Windows, GNU/Linux

- d. RDBMS: MYSQL, FoxPro, MySQL, UML softwares.
- e. Data mining and Data Analytics: WEKA, RapidMiner, XIMiner.

Academic Committees

- a. Head of ABET Readiness Report Committee.
- b. Representative of Faculty of Computer and Information Technology in the University Council.
- c. Member of CIS Dept. for Accreditation Board for Engineering and Technology (ABET) Committee.
- d. Coordinator of CIS Dept. for Employment and promotion Committee.
- e. Head of Curriculum Committee.
- f. Member of Data Science Master Program Curriculum preparation
- g. Representative of CIS Department in the Faculty of CIT Council.
- h. Head of the Scientific Research Committee.
- i. Member of the Study Schedule Committee.
- j. Promotion/appointment committee coordinator
- k. Member of the Graduate studies Committee.
- l. Taif University, Saudi Arabia
 - a. Quality Assurance Committee.
 - b. Member of the Accreditation Committee.
 - c. Member of the Research Committee