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Dr. Hamdy M. Mousa, Ph. D.



Contact Information

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Education

B. SC. Electronic Engineering,
Faculty of Electronic Engineering, Menoufia Univ., 1991.

M. SC. Industrial Electronics Engineering dept., Faculty of Electronic Engineering,
Menoufia Univ., 2002.

Thesis title : " EVOLUTIONARY OPTIMIZING NEURAL NETWORKS ARCHITECTURE AND THEIR APPLICATIONS FOR NONLINEAR SYSTEMS IDENTIFICATION "

" استنباط الشبكات العصبية التطورية المثلى لتعريف النظم غير الخطية "

Ph. D. Industrial Electronics Engineering dept., Faculty of Electronic Engineering,
Menoufia Univ., 2007.

Thesis title : " A Microcontroller Based Distributed Intelligent Control For Industrial Applications"

تطبيقات نظم التحكم الذكية الموزعة باستخدام الحاكمت الدقيقة في العمليات الصناعية

Training courses

Quality Management, Nasco, Cairo, 7 days, 1996.
ISO9001, Nasco, Cairo, 7 days, 1996.
Workshop in microprocessors, Ghana, 7 days, 2005
Workshop in Gamma Camera, Vienna, Austria, 7 days, 2008
“Management of Research Teams”, Menoufia University, 3 days, 2012.
“International Publishing of Research”, Menoufia University, 3 days, 2012.
“Using Technology in Education”, Menoufia University, 3 days, 2012.
“Student Evaluation and Examinations Techniques”, Menoufia University, 3 days, 2012.
“Program of Effective Presentation Skills”, Menoufia University, 3 days, 2012.
“How to Complete for a Research Fund”, Menoufia University, 3 days, 2012.
“Credit Hours”, Menoufia University, 3 days, 2012.
“Communication Skills”, Menoufia University, 2 days, 2014.
“Legal and Financial Aspects in University Environment”, Menoufia University, 2 days, 2014
“Using global databases” ”, Menoufia University, 2 days, 2017
“Discussion Making and Problem Solving”, Menoufia University, 2 days, 2017
“Crisis and Disaster management”, Menoufia University, 2 days, 2017
“People Management”, Menoufia University, 2 days, 2017

Professional Experience (From 1992 up till Now)

1. [1992 - 1994]
Programmer- Information centers. Officer in armed forces,
2. [Jul 1997 - 2008]
Engineer, Ass. Lecturer and Lecturer, EAEA - NRC - Eng. Dept.,
3. [2008 - 2014]
Lecturer, CS dept., Computers and Information Faculty, Menoufia University, Shebin Elkom 32511, Egypt.
[2014 - Now]
Assoc. Prof. and head of Computer science, CS dept., Computers and Information Faculty, Menoufia University, Shebin Elkom 32511, Egypt.
4. [Sept., 2010 - 2013]
Lecturer (Part time), *Higher Technological Institute* .Tenth of Ramadan City.

Courses taught by me;

A. Undergraduate level

- | | |
|--|---------------------------------------|
| 1. Introduction to Computers. | 2. Algorithms and Flowchart |
| 3. Assembly Language | 4. Analysis and Design of Algorithms |
| 5. Knowledge-Based Systems | 6. Compiler Design |
| 7. Distributed Systems | 8. Operating Systems |
| 8. Computer Applications | 10. Computer System I (Logic Design) |
| 11. Computer System II (Microcontrollers) | |
| 12. Microcontrollers and Microprocessors systems | |
| 13. Natural language processing | 14. Expert systems |

15. Logic Design-I

17. Principles of Programming

19. Formal Languages and Automata Theory

16. Logic Design-II

18. Computer Programming-1

B. Postgraduate level

1. Computer Mathematics

3. Knowledge-Based Systems – 2

5. Selected Topics – 2 (SOA)

7. Advanced Computers (SPSS)

9. Analysis & Design of Information Systems

10. Analysis & Design of Systems – 2

11. Natural language processing– 2

12. Advanced Robotics

13. Natural language processing and Machine Translation

2. Language Engineering

4. Fuzzy Logic

6. Management of Data Centers

8. Neural Networks and Deep Learning

Graduate projects supervised by me

{ Funded by Information Technology Industry Development Agency - ITIDA, Ministry of Communications and Information Technology - MCIT }

M. Sc. & Ph. D supervised by me

NLP , ERP , Anti-phishing, Speech Recognition Control

Nuclear Power Station Control

Hazard Assessment for Reinforced Concrete Building Structures

Arabic Information categorization.

Big data analytics, Information Security, Bioinformatics

Other Skills

Arabic: Native

English: Proficient

French: Working knowledge

MS Office: Proficient

C/C++: Proficient

List of Conferences

- 9th Inter. Conference on Aerospace Sciences and Aviation Technology, Military Technical College, Cairo, Egypt, May 2001.
- The 2006 International Conference On Computer Engineering & Systems (ICCES'2006), Ain Shams University, Faculty of Engineering, Computer Engineering & Systems Department, Cairo, EGYPT, 2006.
- The 2011 World Congress on Computer Science and Information Technology, WCSIT'11, January 24-27, 2011, Cairo, Egypt

- The 2011 International Conference On Computer Engineering & Systems (ICCES'2011), Ain Shams University, Faculty of Engineering Computer Engineering & Systems Department, Cairo, EGYPT, November 30th – December 1st, 2011.
- The 8th International Conference on INFOmatics and Systems (INFOS2012) – 14-16 May Advances in Data Engineering and Management Track
- The 2012 World Congress in Computer Science, Computer Engineering & Applied Computing, Las Vegas, Nevada, USA, July 16-19, 2012
- The 2012 International Conference On Computer Engineering & Systems (ICCES'2012), Ain Shams University, Faculty of Engineering Computer Engineering & Systems Department, Cairo, EGYPT, November 27-29th, 2012.
- The 9th International Conference on INFOmatics and Systems (INFOS2014) –15-17th December 2014
- The 2015 World Congress in Computer Science, Computer Engineering & Applied Computing, **The 14th International Conference on Information & Knowledge Engineering (IKE'15**, Las Vegas, Nevada, USA, July 27 – 30, 2015
- The 26th International Conference on Computer Theory and Applications (ICCTA 2016), 25-27 October 2016, Alexandria, Egypt.
- 11th International Conference on Computer Engineering & Systems (ICCES'2016), Cairo, Egypt, 20-21 Dec. 2016.
- 13th International Computer Engineering Conference (ICENCO 2017), Cairo, Egypt, 27-28 Dec. 2017
- 12th International Conference on Computer Engineering and Systems (ICCES' 2017), Cairo, Egypt, 19-20 Dec. 2017.
- The Eighth International Conference on ICT In Our Lives, pp. 118 – 124, 15 -17 Dec. 2018.
- 14th International Computer Engineering Conference (ICENCO 2018), 29-30 Dec. 2018
-

Publications

- **H. M. Mousa**, M. A. Koutb, S. M. El-Araby " Learning using Error Back Propagation: A New Version", Proc. Of 9th Inter. Conference on Aerospace Sciences and Aviation Technology, Military Technical College, Cairo, Egypt, pp. 959-971, May 2001.
- **H. M. Mousa**, M. A. Koutb, S. M. El-Araby and M. A. El-Bardini “Hardware Implementation of Fuzzy Controller on Microcontroller: Monitoring and Control”, Minufiya Journal of Electronic Eng. Reseach MJEER, Vol. 15, No. 2, pp. 133-143, July 2005.
- **H. M. Mousa**, M. A. Koutb, and M. A. El-Bardini “On-Line Neurocontroller Based on Microcontroller” IEEE Inter. Conf. Industrial Tech. (IEEE ICIT2005), Hong Kong, pp. 1252-1256, Dec. 2005.
- **H. M. Mousa**, M. A. El-Bardini, Sayed M. El_araby and M. A. Koutb, “On-Line Distributed Neurocontrollers Based on Microcontrollers”, The 2006 International Conference On Computer Engineering & Systems (ICCES'2006), Ain Shams University, Faculty of Engineering Computer Engineering & Systems Department, Cairo, Egypt, 2006.
- Dina. A. Emarah, Manar. M. Hussein, **Hamdi. M. Mousa** and Adel. Y. Akl “Damage assessment of buildings due to pipeline settlement using fuzzy decision support tool”, Journal of American Science, 2011;7(4), <http://www.americanscience.org>, pp. 374-384.

- **Hamdi. M. Mousa**, Magdy. A. Koutb, Sayed. M. El-Araby and Elsayed H. M. Ali, “Design of optimal fuzzy controller for water level of U-Tube steam generator in nuclear power station”, Journal of American Science (<http://www.americanscience.org>) , pp. 629-637,7(4), 2011.
- **Hamdi. M. Mousa**, Magdy. A. Koutb, Sayed. M. El-Araby and Elsayed H. M. Ali, ”Improvement of Water Level Controller for Nuclear Steam Generator at Low Power Operation“ ,The 2011 World Congress on Computer Science and Information Technology, WCSIT'11, January 24-27, 2011, Cairo, Egypt
- Dina. A. Emarah, Manar. M. Hussein, **Hamdi. M. Mousa** and Adel Y. Akl, “The Application of Fuzzy Modeling to Hazard Assessment for Reinforced Concrete Building Structures Due to Pipeline Failure”, Life Science Journal (<http://www.sciencepub.net/life>), pp. 595- 608, 8(4), 2011.
- **Hamdi. M. Mousa**, Magdy. A. Koutb, Sayed. M. El-Araby and Elsayed H. M. Ali, “Advanced Control Technique Application in U-Tube Steam Generator of Nuclear Power Station", The 2011 International Conference on Computer Engineering & Systems (ICCES'2011), Ain Shams University, Faculty of Engineering Computer Engineering & Systems Department, Cairo, Egypt, pp. 85-90, November 30th – December 1st, 2011.
- Ahmed Mohamed Lamey, Arabi Keshk and **Hamdy M. Mousa**, “Improve Performance of Enterprise Information Sap Portal “, International Journal of Computer Applications (0975 – 8887) Volume 37– No.1, pp. 1-5, January 2012.
- Ahmed Mohamed Lamey, Dr. Arabi Keshk and **Dr. Hamdy M. Mousa**, “Improve Performance of Enterprises Information Portal Using RFC and IDOC Technique”, The 8th International Conference on INFormatics and Systems (INFOS2012), pp. DE60-65, 14-16 May 2012.
- **Hamdy M. Mousa** and Ashraf El-Sisi, " Evaluation of Encryption Algorithms for Privacy Preserving Association Rules Mining on distributed horizontal database ", The 2012 World Congress in Computer Science, Computer Engineering & Applied Computing, Las Vegas, Nevada, USA, July 16-19, 2012.
- **Hamdy M. Mousa** and Ashraf B. El-Sisi, “Evaluation of Encryption Algorithms for Privacy Preserving Association Rules Mining”, International Journal of Network Security, Vol.14, No.5, pp. 289-296, Sept. 2012.
- **Hamdi. M. Mousa**, Magdy. A. Koutb, Sayed. M. El-Araby and Elsayed. H. M. Ali, “Evolutionary Computation Application in Power Level Control of Nuclear Power Station", The 2012 International Conference On Computer Engineering & Systems (ICCES'2012), Ain Shams University, Faculty of Engineering Computer Engineering & Systems Department, Cairo, EGYPT, pp. 61-66, November 27-29th, 2012.
- **Hamdy M. Mousa** and Ashraf B. El-Sisi “Argumentation Based Negotiation in Multi-agent System”, The 2012 International Conference on Computer Engineering & Systems (ICCES'2012), Ain Shams University, Faculty of Engineering Computer Engineering & Systems Department, Cairo, Egypt, pp. 261-266, November 27-29th, 2012.
- **Hamdy M. Mousa** and Ashraf B. El-Sisi, "Design and Implementation of Course Timetabling System Based on Genetic Algorithm”, The 2013 International Conference on Computer Engineering & Systems (ICCES'2013), Cairo, Egypt, November 26-28th, 2013.
- **Hamdy M. Mousa**, “Secured Steganography Algorithm Based Random Function”, The 2013 International Conference on Computer Engineering & Systems (ICCES'2013), Cairo, Egypt, Nov. 26-28th, 2013.

- **Hamdy M. Mousa**, Mostafa A. Ahmed and Ashraf B. El-Sisi, “Image Compression Ratio Enhancement Based on Conformal Mapping”, The 2013 International Conference on Computer Engineering & Systems (ICCES’2013), Cairo, Egypt, November 26-28th, 2013.
- Noha S. Fareed, **Dr. Hamdi M. Mousa**, Dr. Ashraf B. ElSisi, “ Improved Semantic Arabic Question Answering System Design”, Third International Conference on ICT in our lives , Information Systems Serving the Community, Faculty of Commerce, Alexandria University, Alexandria, Egypt, December 21st -23rd, 2013.
- Ashraf B. El-Sisi, **Hamdy M. Mousa**, and Mohamed G. Malhat, “Parallel Descriptor Computation for Chemical Compounds Using MapReduce”, Sixth International Conference on Intelligent Computing and Information Systems (ICICIS 2013) , Cairo, Egypt , December 14-16, 2013.
- N. S. Fareed, **H. M. Mousa** and A. B. ElSisi, “Enhanced Semantic Arabic Question Answering System Based on Khoja Stemmer and AWN”, 9th International Computer Engineering Conference (ICENCO), pp. 85 – 91, 28-29 Dec. 2013.
- **Hamdy M. Mousa** and Ashraf B. El-Sisi, "Argumentation Based Negotiation in Multi-agent System", The Int. Arab journal of e-Technology (IAJeT),pp. 155-162, Vol.3, No. 3, Jan. 2014.
- M. Malhat, **H. M. Mousa**, A. El-sisi, “Reducing Square-Error of Jarvis-Patrick Algorithm for Drug Discovery”, International journal of engineering research and technology (IJERT), Volume 3, Issue 07, July, 2014. <https://www.ijert.org/phocadownload/V3I7/IJERTV3IS070727.pdf>
- Mohamed G. Malhat, **Hamdy M. Mousa** and Ashraf B. ElSisi,”Parallel Ward Clustering for Chemical Compounds Using MapReduce”, The 2nd international conference on advanced machine learning technologies and applications (AMLT2014), Cairo, Egypt, November 28-30, 2014. [DOI 10.1007/978-3-319-13461-1_25](https://doi.org/10.1007/978-3-319-13461-1_25)
- Mohamed G. Malhat, **Hamdy M. Mousa** and Ashraf B. ElSisi,”Clustering of Chemical Data sets for Drug Discovery”, The 9th International Conference on Informatics and Systems (INFOS2014), 15-17th Dec., 2014. [DOI: 10.1109/INFOS.2014.7036702](https://doi.org/10.1109/INFOS.2014.7036702)
- Mohamed G. Malhat, **Hamdy M. Mousa** and Ashraf B. ElSisi, ”Improving Jarvis-Patrick Clustering Algorithm for Drug Discovery”, The 9th International Conference on Informatics and Systems (INFOS2014), 15-17th Dec., 2014. [DOI: 10.1109/INFOS.2014.7036710](https://doi.org/10.1109/INFOS.2014.7036710)
- Noha S. Fareed, **Hamdy M. Mousa** and Ashraf B. ElSisi, “Syntactic Open Domain Arabic Question/Answering System for Factoid Questions”, The 9th International Conference on Informatics and Systems (INFOS2014), 15-17th Dec., 2014. [DOI: 10.1109/INFOS.2014.7036699](https://doi.org/10.1109/INFOS.2014.7036699)
- **Hamdy M. Mousa**, “Multi-Participant Encryption-Steganography Technique”, The 14th International Conference on Information & Knowledge Engineering (IKE’15), Las Vegas, Nevada, USA, pp.175-180, July 27–30, 2015. (<http://worldcomp-proceedings.com/proc/p2015/IKE2490.pdf>)
- Mohamed G. Malhat, **Hamdy M. Mousa**, “Evaluating Parallel Ward Algorithm for Drag Discovery”, International Journal of Computers and information(IJCI), Menoufia University, Faculty of Computers and information, Vol., 4, No. 1, July 2015.
- Rouhia M. Sallam, **Hamdy M. Mousa** and Mahmoud Hussein, ”Improving Arabic Text Categorization using Normalization and Stemming Techniques”, International Journal of Computer Applications (0975 – 8887), pp. 38- 43, Volume 135 – No.2, February 2016. [DOI: 10.5120/ijca2016908328](https://doi.org/10.5120/ijca2016908328)

- **Hamdy M. Mousa**, “DNA-Genetic Encryption Technique”, International Journal of Computer Network and Information Security (<http://www.mecs-press.org/>), pp. 1-9, July 2016. [DOI: 10.5815/ijcnis.2016.07.01](https://doi.org/10.5815/ijcnis.2016.07.01)
- Rouhia M. Sallam, **Hamdy M. Mousa** and Mahmoud Hussein, “A Comparative Study for Arabic Text Classification Based on BOW and Mixed Words Representations”, International Journal Of Computers And Information (IJCA) Menoufia University, Faculty of Computers and information, pp.24-34, Vol. 5 No. 1, July 2016.
- Saleh M. Abdullah, Osama Younes, **Hamdy M. Mousa**, and Hatem Abdul-Kader, “Improving Performance of TCP Variants in Long Term Evolution (LTE)”, The 26th International Conference on Computer Theory and Applications (ICCTA 2016), 25-27 October 2016, Alexandria, Egypt.
- Saleh M. Abdullah, Osama Younes, **Hamdy M. Mousa**, and Hatem Abdul-Kader, “Enhancing Performance of TCP Variants in LTE”, International Journal of Computer Applications (0975 – 8887), Volume 152 – No.1, pp. 41-47, October 2016. [DOI: 10.5120/ijca2016911762](https://doi.org/10.5120/ijca2016911762)
- Mahmoud Hussein, **Hamdy M. Mousa** and Rouhia M. Sallam, “Arabic Text Categorization Using Mixed Words”, MECS International Journal Information Technology and Computer Science, Vol. 8 No. 11, pp. 74-81, Nov. 2016. [DOI: 10.5815/ijitcs.2016.11.09](https://doi.org/10.5815/ijitcs.2016.11.09)
- Saleh M. Abdullah, Osama Younes, **Hamdy M. Mousa**, and Hatem Abdul-Kader, “Dynamic window size of TCP for Long Term Evolution (LTE)”, 11th International Conference on Computer Engineering & Systems (ICCES’2016), Cairo, Egypt, pp. 378-383, 20-21 Dec. 2016. [DOI: 10.1109/ICCES.2016.7822033](https://doi.org/10.1109/ICCES.2016.7822033)
- Abdelrahman E. El-Ghareeb, **Hamdy M. Mousa** and Ashraf B. El-Sisi, “Intelligent agent for smart grid fault location isolation using Simulink”, 12th International Conference on Computer Engineering and Systems (ICCES’ 2017), pp. 550 – 555, 19-20 Dec. 2017. [DOI: 10.1109/ICCES.2017.8275368](https://doi.org/10.1109/ICCES.2017.8275368)
- Mohamed Malhat, Mohamed El Menshawy, **Hamdy M. Mousa** and Ashraf El Sisi, “Improving instance selection methods for big data classification”, 13th International Computer Engineering Conference (ICENCO 2017), pp. 213 – 218, 27-28 Dec. 2017. [DOI: 10.1109/ICENCO.2017.8289790](https://doi.org/10.1109/ICENCO.2017.8289790)
- Rabab Mohamed Nabawy, Heba Elbeh and **Hamdi Moussa**. A Survey on Partitioning Techniques for Structured Data. International Journal of Computer Applications 180(14):9-14, January 2018. [DOI: 10.5120/ijca2018916268](https://doi.org/10.5120/ijca2018916268)
- **Hamdy M. Mousa**, "Chaotic Genetic-fuzzy Encryption Technique", International Journal of Computer Network and Information Security (IJCNIS), Vol.10, No.4, pp.10-19, 2018. [DOI: 10.5815/ijcnis.2018.04.02](https://doi.org/10.5815/ijcnis.2018.04.02)
- Eman M. Mohamed, **Hamdy M. Mousa**, Arabi E. keshk, "Comparative Analysis of Multiple Sequence Alignment Tools", International Journal of Information Technology and Computer Science(IJITCS), Vol.10, No.8, pp.24-30, 2018. [DOI: 10.5815/ijitcs.2018.08.04](https://doi.org/10.5815/ijitcs.2018.08.04)
- Eman M. Mohamed, **Hamdy M. Mousa**, and Arabi E. keshk, “A Parallel Progressive Algorithm for Large-Scale Multiple Sequence Alignment”, The Eighth International Conference On ICT In Our Lives, pp. 118 – 124, 15 -17 Dec. 2018.
- Mohamed Malhat, Mohamed El-Menshawy, **Hamdy Mousa**, and Ashraf El-Sisi, “A New Automated Big Data Partitioning Approach to Improve Condensation Methods Performance”, 14th International Computer Engineering Conference (ICENCO 2018), 29-30 Dec. 2018.
- Eman M. Mohamed, **Hamdy M. Mousa**, and Arabi E. keshk, “Improving Standard Progressive Multiple Sequence Alignment by Using Multithreading Techniques”, 14th International Computer Engineering Conference (ICENCO 2018), 29-30 Dec. 2018.

- Mohamed Malhat, Mohamed El-Menshawy, **Hamdy Mousa**, and Ashraf El-Sisi, "A Novel Scalable and Effective Partitioning Approach for Big Data Reduction", Volume 6, Issue 1, pp. 9-19 Winter and Spring 2019. [DOI: 10.21608/IJCI.2019.35122](https://doi.org/10.21608/IJCI.2019.35122)
- Sally Mohamed Ali, **Hamdy M. Mousa**, Mahmoud Hussein, "A Review of Open Information Extraction Techniques", Volume 6, Issue 1, pp. 20-28, Winter and Spring 2019. [DOI: 10.21608/IJCI.2019.35099](https://doi.org/10.21608/IJCI.2019.35099)
- Eman M. Mohamed, **Hamdy M. Mousa** and Arabi E. Keshk, "Enhanced PROBCONS for Multiple Sequence Alignment in Cloud Computing", International Journal of Information Technology and Computer Science (IJITCS), Vol.11, No.9, pp.38-47, 2019. [DOI: 10.5815/ijitcs.2019.09.05](https://doi.org/10.5815/ijitcs.2019.09.05)
- Rabab M. Nabawy, Heba El Beh and **Hamdi M. Mousa**, "Securing Big Data Using Mixed Fragmentation Based on Multi-Cloud Environment", International Journal of Scientific & Technology Research, Volume 9, Issue 03, March 2020.
- **Hamdy M. Mousa**, "Bat-Genetic Encryption Technique", International Journal of Intelligent Systems and Applications (IJISA), Vol.11, No.11, pp.1-15, 2019. [DOI: 10.5815/ijisa.2019.11.01](https://doi.org/10.5815/ijisa.2019.11.01)
- Mohamed Malhat, Mohamed ElMenshawy, **Hamdy Mousa** and Ashraf ElSisi, "A new approach for instance selection: Algorithms, evaluation, and comparisons", Expert Systems with Applications, Volume 149, July 2020. <https://doi.org/10.1016/j.eswa.2020.113297>
- Eman M Mohamed, **Hamdy M. Mousa** and Arabi E. Keshk, "E-PROBCONS: Enhanced PROBCONS for Multiple Sequence Alignment", IJCI. International Journal of Computers and Information, Volume 7, Issue 1, pp.1-13, 2020. DOI: 10.21608/ijci.2020.15523.1002
- Manal Essam, Mohamed El-Menshawy and **Hamdy M. Mousa**, "Sentiment Analysis for Arabic Social Media", IJCI. International Journal of Computers and Information, Volume 7, Issue 1, pp.14-31, 2020. [DOI: 10.21608/IJCI.2020.16170.1004](https://doi.org/10.21608/IJCI.2020.16170.1004)
- Elsayed H. Ali, H. Arafa, S. M. S. Elaraby and **Hamdy M. Mousa**, "Experimental Modeling and Identification of Chemical Reactors Based on Radiotracer Technology", International Journal of Advanced Science and Technology, 29(05), pp. 13117-13130, 2020.
- Rouhia M Sallam, Mahmoud Hussein and **Hamdy M Mousa**, "An Enhanced Collaborative Filtering-based Approach for Recommender Systems", International Journal of Computer Applications 176(41):9-15, July 2020. [DOI: 10.5120/ijca2020920531](https://doi.org/10.5120/ijca2020920531)
- Manal Essam, Mohamed Elmenshawy and **Hamdy M Mousa**, "Arabic Tweets Sentiment Analysis using Hybrid Approaches", International Journal of Computer Applications 175(36):43-49, December 2020. [DOI:10.5120/ijca2020920929](https://doi.org/10.5120/ijca2020920929)
- Sally Mohamed, Mahmoud Hussein and **Hamdy M. Mousa**, "ADPBC: Arabic Dependency Parsing Based Corpora for Information Extraction", International Journal of Information Technology and Computer Science (IJITCS), Vol.13, No.1, pp.54-61, 2021. [DOI: 10.5815/ijitcs.2021.01.04](https://doi.org/10.5815/ijitcs.2021.01.04)