

**Name:** Mostafa M. Aref  
**Address:** 10 Yashbak Street, Abasia 11517, Cairo, Egypt  
**Phone:** (20122)-642-7055 (M)  
**E-mail:** [mostafa.aref@cis.asu.edu.eg](mailto:mostafa.aref@cis.asu.edu.eg)  
[aref\\_99@yahoo.com](mailto:aref_99@yahoo.com)  
[mostafa.m.aref@gmail.com](mailto:mostafa.m.aref@gmail.com)  
**ORCID:** 0000-0002-1278-0070  
**Scopus Author ID:** 57201486023



## Education:

- Ph.D. of Engineering Science** in System Theory and Engineering, June 1988, University of Toledo, Toledo, Ohio. The dissertation title "Evaluation of Heuristic Approach for Program Partitioning and Allocation Using Expert System."
- M.Sc. of Computer Science**, October 1983, University of Saskatchewan, Saskatoon, Sask. Canada. The thesis title is "Automated Concept Discovery in Data Structure Applications".
- B.Sc. of Electrical Engineering** - Computer and Automatic Control section, in June 1979 with general grade Distinction and Honor degree, Electrical Engineering Dept., Ain Shams University, Cairo, EGYPT.

## Work Experience

- Jan 2008-Present, Ain Shams University, Cairo Egypt**

September 2022 – Present	Professor of Computer Science
September 2018 - August 2022	Chairman of Computer Science Department
September 2017 - August 2018	Professor of Computer Science
July 2015 - August 2017	Vice Dean for Society and the Environment
February 2015 - July 2015,	Professor of Computer Science
November 2014 - January 2015,	Acting Dean of Faculty of Computer and Information Sciences
November 2011 - November 2014,	Vice Dean for Graduate studies and Research
April 2008 - November 2011,	Professor and Chairman of Computer Science Department
January 2008 - April 2008,	Professor of Computer Science
- Feb 2005-Jan 2008, Akbar Elyom Academy, 6 October City, Egypt.**

Nov 2006 - January 2008,	Professor and Chairman, Dept. of Computer Science & Information technology
June 2005 - November 2006,	Chairman, Department of Computer Science & Information technology
Feb 2005 - June 2005,	Associate Professor,
- January 2001 - January 2005, Associate Professor, Department of Computer Science and Engineering, University of Bridgeport, Connecticut, USA.**
- September 1989 - January 2001, Information and Computer Science Department, College of Computer Science and Engineering, KFUPM, Saudi Arabia.**

January 1999 - January 2001,	Associate Professor,
September 1989 - December 1998,	Assistant Professor,
- Sept. 1988-June 1989, Assistant Professor, Math/Computer Science Dept., Central State University, Wilberforce, Ohio, USA.**
- Sept. 1983-June 1988, part-time instructor in the Dept. of Elect. Eng., University of Toledo.**
- Sept. 1981-August 1983, lecture assistant and laboratory instructor Comp. Sci. Dept., Univ. of Saskatchewan. Canada.**
- August 1979 - Sept. 1981, lecture assistant in Elect. Eng. Dept. Ain Shams Univ. Cairo, EGYPT.**

## Administration Activities

### 1- Graduate Studies Deanship

Faculty of Computer Science and Information has four departments. They are Computer Science, Information Systems, Scientific Computing and Computing Systems. During my three years deanship, I have cooperated with these four departments to update the M.Sc. and Ph.D. curriculum. The new curriculum applies the credit hours concepts. I follow up this new curriculum until it has been approved by the Ain Shams University, Computer and Information Science National Committee and Supreme Council of Egyptian Universities.

### Accreditation Visits

During the years 2015-2017, I have served as a member in eight different accreditation teams. These teams are formed from National Authority for Quality Assurance and Accreditation of Education (NAQAAE) of Egypt. These teams visited two Faculties of Computer Science and Information in two government Universities (twice) (2015, 2017, 2018, 2018); One Faculty of Information Systems and Computer (twice) in a private University (2016, 2017); and two private higher institutions that offer B.Sc. Degree in Computer and Information Science (2015 and 2017). During these visits, the team review, evaluate the education process in two aspects: Institutional Capability and Educational Effectiveness. At the end of

each visit, a report is written with the recommendation for Institution accreditation.

## 2- National Committees

- The Egyptian Supreme Console of the Universities (SCU) committee for “follow up of the universities staff e-portfolio” dated by November 4, 2014-now. In progress.
- Higher Education Ministry 3-members committee for “Approving appointment of academic staff Commerce and Computer academic institutions”, November 2012-Now. In progress.
- Member of referees of the Egyptian Universities Promotion Committee of Computer Science and Information 2009-now. In progress.
- External Examiner for Diploma, M.Sc., and Ph.D. programs, Department of Computer Science, Institute of Statistical Studies & Research, Cairo University, January 2018.
- External Examiner for Diploma, M.Sc., and Ph.D. programs, Department of Computer Science, Faculty of Computer and Information, Cairo University, March 2016.
- Higher Education Ministry committee for “Information & Communication Technology Projects (ICTP) evaluation” formed by ministry order number 928 dated by March 27, 2014. Final reported submitted by May 20, 2014.

## Research Activities

- **An Ontology-Based Semantic Arabic Search Engine**  
ITAC Proposal (ARP), Information Technology Industry Development Agency, 2010.
- **Connecticut Transfer Network for Engineering Studies,**  
U.S. Department of Education’s Fund for the Improvement of Postsecondary Education, September 2005-June 2008, \$136,854, 2004.
- **Low Bandwidth, Animated, Streaming Audio Based Distance Learning,**  
Connecticut Distance Learning Consortium (CTDLC), March 1, 2003, through August 31, 2003; \$11,200, Funded.
- **Managing Uncertainties and Vague Linguistic Information in Computerized Medical Diagnosis systems: Toward Developing an Intelligent Web based Expert system for Anemia Diagnosis and Categorization**  
U.S. Egypt Joint Board on Scientific and Technological Cooperation.
- **A Framework for Object Oriented Formal Hardware Verification.**  
King Fahd University of Petroleum and Minerals.
- **Machine Translation Prototype (from English to Arabic) in the Military Domain.**  
King Abdul Aziz City for Science & Technology (KACST).
- **A Production System Based Environment for Formal Hardware Verification.**  
King Abdul Aziz City for Science & Technology (KACST).
- **EXEPROM: An Expert System for EPROM Silicon Compiler.**  
King Abdul Aziz City for Science & Technology (KACST).
- **Design of an Expert System assisting Power System Planners and Operators.**  
King Abdul Aziz City for Science & Technology (KACST).
- **Automated Development of Test Program Sets**  
Center of Artificial Intelligence Application, Miami Valley Research Park, Kettering, Ohio, U.S.A.
- **Expert System for Process Operating Methods Using CSRL.**  
Martin Marietta Energy System, Inc., Pikton, Ohio, U.S.A.

## Research Areas:

In my research, I am focusing my works in two subarea of Artificial Intelligence. They are as follows.

**Natural Language processing:** Research in this area covers a wide range of applications such as Machine Translation, Report Abstraction, Text summarization, Text Understanding. Recently, it covers Social Media Opinion Mining.

**Ontology:** Research in this area covers ontology construction, lexical building, Bilingual ontology, ontology maintenance (updating, pruning, evolution, and repairing).

## Teaching Activities

Through about 30 years of working in academic environment, I had taught the most of computer science courses. The following are some of them.

Introduction to Computer Programming	Introduction to Computer Science
Introduction to Computing	Discrete Structures
Mathematical Logic	System Software
File Processing	Object-Oriented Programming
Programming Languages	Automata & Formal Languages
Software Engineering	Component based Software developing
Java Programming	Software Project Management
Decision Support Systems	Expert Systems

Analysis of Algorithms  
Artificial Intelligence  
Computer Graphics  
Natural Language Processing  
Advanced Artificial Intelligence

Theory of Computations  
Knowledge-Based Systems  
Database Systems  
Ontological Engineering  
Advanced Natural Language Processing

### **Ph.D. Thesis Supervision:**

I served as the supervisor of the following Ph.D. Thesis:

- 1- Mohamed Galal El Saeed Rabiea “Using Machine Learning Engineering to Enhance Business Intelligence Predictive Analytics”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 2- Ghada Muhammed Farouk “A Deep Learning Based Approach for Word Sense Disambiguation”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 3- Salma Radwan Hassan Abdel-Hamid “Intelligent Techniques for Enhancement of Internet of Things Security”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 4- Donia GamalEldin Nazim Sayed “Developing Intelligent Techniques for Cyber-hate Speech Detection”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 5- Esraa Abdalla Abdelhamid, “Personality Detection From Text using Sentiment Analysis”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 6- Hassan Abdel-Sabour ElMadany, “Machine Learning based on Big Data in Enterprise Resource Planning (ERP)”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, November 2022.
- 7- Wa'el Mohsen, “Comprehensive Environment for Collaborative Ontology Evolution,” Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. September 2021.
- 8- Soha Saied Ibrahim ElShafie, “Identifying User Attitude Using Sentiment Analysis in Social Media”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. July 2020.
- 9- Ebtsam Abdelhakam Sayed Mohamed, “Multi-lingual Web Search System”, Department of Computer Science, Faculty of Computer and Information Sciences, Mansoura University. May 2020.
- 10- Mariam Nabil Gawich, Developing a System for Medical Ontology Maintenance”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. May 2018.
- 11- Dalia Sayed Fadl, “Developing a Framework for Building an Arabic Ontology,” Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. January 2018
- 12- Ehab Awad Mohamed, “Developing Safety Critical Software Systems Framework for Nuclear Power Plants (NPPs),” Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, December 2017.
- 13- Sally Saad Mohamed Ismail, “Ontology Based Approach for Automatic Text Summarization,” Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. May 2017.
- 14- Mahmoud Elbattah, “Intelligent Techniques for Analyzing and Processing Big Data,” Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. February 2017.
- 15- Wasim Ahmed AL-Romimah, “Developing Semantic-based System for Arabic Information Retrieval,” Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University. December 2016.
- 16- Hend Mahmoud Ali Kassem, “The Effectiveness of a Proposed Model Based on the Virtual Worlds for Training Preschool Child on Skill of Using the Learning Resources”, Department of Education Technology, Faculty of Specific Education, Ain Shams University, April 2016.
- 17- Ibrahim Ali, “Artificial Intelligence Approach To Diabetes Diagnostics” Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. November 2015.
- 18- Shima Said Abdel-Latif, “Effectiveness of the Design Wiki Pedia-based Participatory Learning Objects in the Development of Technology Education Students Attributes Toward him in the Light of Quality Standards”, Department of Education Technology, Faculty of Specific Education, Ain Shams University, November 2015.
- 19- Hebat Allah Ahmed Abd Elaty Mohamed, “Design of Intelligent Educational System for Developing of Management Skills of The Electronic Classrooms with The Student Teachers,” Educational Technology Department, Faculty of Education, Ain Shams University, November 2015.
- 20- Marco Alfonse, “Ontological Engineering Approach for Medical Knowledge Sharing,” Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, June 2014.
- 21- Shahenda Salah El-Din Sarhan, “Exchanging Opponent Experiences Between Real-Time Strategy Game Engines”, Computer Science Department, Faculty of Computer and Information, Mansoura University, May 2012.

### **MS Thesis Supervision:**

I served as the supervisor of the following MS Thesis:

- 1- Moataz Mohammed Abd-Elfattah Selim “Using Deep Learning Methods in Developing a Conversational Agents”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.

- 2- Yomna Ahmed Ibrahim Shehata “Self-Supervised Representation Learning for Visual Scene Understanding”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 3- Mahmoud Mohamed Abd El-Razzak Amin, “Developing a System for Automatic Text Summarization”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 4- Mirna Al-Shetairy, “Developing Intelligent Chart Data Understanding Solutions using Visual Question Answering”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 5- Abdelrahman Ahmed Mosaed Ahmed, “Developing Multitask Question Answering Model using Deep Learning”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 6- Ghada Magdy Mohammed Ahmed Elshamy “Building a Visual Based Dialog System Through Artificial Intelligence Techniques”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 7- Shahd Moemen Fathy Ismail “Developing Models for Error Detection in Arabic Language”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 8- Alshimaa Mohamed Ahmed Ibrahim “Building a System for Medical Text Summarization”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 9- Yasser Essam Ibrahim Mohamed, “Block chain-Based Financial Time Series prediction by AI Algorithms”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. In Progress.
- 10- مصطفى احمد محمد احمد، "تطوير بيئة تعلم الكترونية قائمة على برمجة الكتل وأثرها في تنمية مهارات البرمجة الاساسية والدافعية للتعلم لدي تلاميذ المرحلة الاعدادية"، كلية التربية النوعية، جامعة عين شمس، ديسمبر 2022.
- 11- Ahmed Saeed Ibrahim “Mining the publication papers via text mining”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, March 2022.
- 12- Noorhan Khaled “Semantic description of Dynamic Scene”, Department of Computer Science, Faculty of Computer and Information Sciences, Mansoura University. Egypt, August 2021.
- 13- Sarah Osama Mohamed Anis “Sentiment Analysis in Tourism & Hospitality”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, April 2021.
- 14- Doaa Ahmed Moustafa, "Developing an efficient Algorithm for Big Data Clustering", Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, October 2020.
- 15- Eman Mohammed Hamdi, “Detection of Mental Health Problems via Social Networks Interactions”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, October 2020.
- 16- Marwah Ahmad Helaly ”Developing a DNA Sequence Classification Model Using Deep Learning Methods”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, July 2020.
- 17- Marwah Salah-Eldin Salem, “Personality Traits Prediction on Social Media”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, Egypt, May 2019.
- 18- Ahmed Reda Abd Elhamid, “Developing Corpus-based Bilingual Ontology for Machine Translation (English/Arabic)”, Faculty of Science, Banha University, Banha, Egypt, November 2018.
- 19- Bassem A. Essam, “Using Twitter to Build an Arabic- English lexicon of Contemporary Egyptian Colloquial and Informal English Words from a Sociolinguistic Perspective”, Department of English, Faculty of Al-Asun, Ain Shams University. September 2018.
- 20- Somaia Osama Mohamed, “Developing an Approach for Solving Ambiguity in Requirements Specification to UML Conversion”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. August 2018.
- 21- Mariam Nabil Gawich, Developing a System for Medical Ontology Maintenance”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. April 2018.
- 22- Mohamed Galal El Saeed Rabiea, “Developing a Personalized Multi-Dimensional Bank Analysis System using Business Intelligence”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, December 2017.
- 23- Hassan Abdel-Sabour ElMadany, “Developing A Framework For Summarizing XML Documents”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, July 2017.
- 24- Mourad Aly, “A Multi-Stage Opponent Model for Strategy Prediction and Reasoning in Real-Time Strategy Games”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, July 2016.
- 25- Esraa Abdalla Abdelhamid, ‘Design of an Intelligent Strategic Planning Technique for Multi-Agent Systems”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. April 2016.
- 26- Ghada Mohamed Farouk ElNahas, “An adaptive engine using opponent modeling for RTS games”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, December, 2014.
- 27- Kareem Mohamed Naguib Ahmed, “Enhancing Cases Retrieval and Adaptation in Case Based Reasoning”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, December, 2014.
- 28- Dalia Sayed Fadl, “Semantic -based Approach for Text Generation”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, June, 2012.
- 29- Soha Said El Shafey, “Ontology-Based Text Representation for Report Abstraction”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, May, 2011.
- 30- Mohamed Saber Hassan, “An Efficient Technique for Graph-Based Data Management”, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, April, 2011.

- 31- Hatem Darweesh, "Design and implementation of a Robot Unified Control Language (R-UCL)", Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, July, 2009.
- 32- Muhammed Haggag Zayain, "Compiler Optimization Techniques", Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, June, 2009.
- 33- Sally Saad, "Designing and Building a Retrieval System for Arabic Documents", Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, June, 2009.
- 34- Mohammed Mamdouh, "Ontology Based Approach for Semantic Text Mining," Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, April, 2009.
- 35- Mohamed Taha, "Enhancing Associated Rules Mining," Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, March, 2009.
- 36- Ahmed Esmat Ibrahim, "Learning Continuous Functions Using Decision Trees Learning Algorithm," ICS Dept., KFUPM, May 2001.
- 37- Abdul-Baqi M. Sharaf, "An Object-Oriented Model for Semantic Analysis of Natural Languages," ICS Dept., KFUPM, January 2001.
- 38- Omar Salem Al-Mehdar, "Algorithm Based Fault Tolerance Systems," ICS Dept., KFUPM, November 2000.
- 39- Mahmoud Elish, "Inheritance Coupling Measurement System for Object-Oriented Software," ICS Dept., KFUPM, December 1999.
- 40- Mohammad Al-Shishtawi, "Integrating Heterogeneous Database Schemas Using an On-line Taxonomy: A Methodology for Creating A Global Schema," ICS Dept., KFUPM, April 1997.
- 41- Mohammed A. Tayyib, "Parallelizing the Rete-Match Algorithm for Distributed Memory Architecture," ICS Dept., KFUPM, January 1997.
- 42- Khaled Abdallah, "Computer Aided Instruction (CAI) model for Procedural Programming Languages," ICS Dept., KFUPM, March 1996.
- 43- Tareg Al-Maghrabi, "An Enhanced Convex-Elastic Net Technique for Solving E-TSP," ICS Dept., KFUPM, March 1996.
- 44- Tambi M. Bak, "Neocognitron: Application to Hand Written Hindi Numerals ," ICS Dept., KFUPM, July 1995.
- 45- Farid Y. Al-Harari, "An Expert System for Load Flow Planning and Contingency Analysis," EE Dept. KFUPM, July 1994.
- 46- Rabee M. Reffat, "The Development of An Expert System for Environmental Quality Evaluation of Office Buildings," ARE Dept., KFUPM, July 1994.
- 47- Osama T. Masoud, "An Integrated Coarse-to-fine feature-based Stereo Algorithm," ICS Dept., KFUPM, July 1994.
- 48- Magdy A. Mahmoud, "Floor Finishing Materials and Systems: An Expert System for Evaluation and Selection," ARE Dept., KFUPM, October 1993.
- 49- Safran A. Al-Safran, "An Arabic Sentence Generation," ICS Dept., KFUPM, July 1992.
- 50- Salah M. Abdallah, "The Development of An Intelligent Alarm Processor," EE Dept. KFUPM, July 1991.

## Thesis Discussion

- 1- Islam Abdelhamid Ahmed Elmasry, "Extracting Software Design Using Machine Learning Techniques", M.Sc. Thesis, Department of Computer Sciences, Faculty of Computers and Artificial Intelligence, Cairo University, 2022.
- 2- مصطفى احمد محمد احمد، "تطوير بيئة تعلم الكترونية قائمة على برمجة الكتلة وأثرها في تنمية مهارات البرمجة الاساسية والدافعية للتعلم لدي تلاميذ المرحلة الاعدادية"، كلية التربية النوعية، جامعة عين شمس، ديسمبر 2022.
- 3- Mohhamed Farouq Yaaqoub, "Predicting Students Performance Using Data Mining Approach", M.Sc. Thesis, Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, November 2022.
- 4- Hassan Abdel-Sabour ElMadany, "Machine Learning based on Big Data in Enterprise Resource Planning (ERP)", Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, November 2022.
- 5- Hala Mahmoud Sabry Hamed, "Regression Analysis for Remaining Useful Life Prediction Of Aircraft Engines", M.Sc. Thesis, Faculty of Computers and Information Technology, Technology Arab Academy for Science, Technology and Maritime Transport, October 2022.
- 6- منار جمال الدين حافظ، "أثر استخدام تكنولوجيا المعلومات على أداء الموارد البشرية الخضراء"، رسالة ماجستير، كلية الدراسات والبحوث البيئية، جامعة عين شمس، يوليو 2022.
- 7- Semar Ali Taha, "Developing an Intelligent System based on Knowledge Engineering Paradigms for Bankruptcy Prediction", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, May 2022.
- 8- Ahmed Saeed Ibrahim "Mining the publication papers via text mining", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, March 2022.
- 9- Zeinab Mohammed Abdo, "Improving Convolutional Neural Networks Learning Through Adaptation", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, December 2021.

- 10- Wa'el Mohsen, "Comprehensive Environment for Collaborative Ontology Evolution," Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. September 2021.
- 11- Manar Mustafa Kamel, "Programming Model for Cloud Computing", Ph.D. Thesis, Department of Computer Science, Faculty of Computers and Artificial Intelligence, Cairo University, August 2021.
- 12- Alaa Hussain Elsaadawy, "Protecting Patients Privacy using Medical Images Watermarking", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, June 2021.
- 13- Eman Hassan Sayed Negm, "Enhancing Domain Specific Language Work Benches", Ph.D. Thesis, Department of Computer Science, Faculty of Computers and Artificial Intelligence, Cairo University, May 2021.
- 14- Shaimaa Adnan Abdelrahman, "Computational Intelligence Paradigm for Personal Identification Based on Biometrics", Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. May 2021.
- 15- Noorhan Khaled "Semantic Description of Dynamic Scene", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Mansoura University. Egypt, August 2021.
- 16- Zina Amr Ali Rayan, "Developing a Smart Health Monitoring System Using Machine Learning Techniques", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, January 2021.
- 17- Sherif Mohamed Samir Fth-Alla, "Different Consensus Algorithms Protocols used for Blockchain Technology and Smart Contract", M.Sc. Thesis, Department of Computer and System Engineering, Faculty of Engineering, Ain Shams University, 2020.
- 18- Ahmed Hamdy Ismail Ali, "A Study of Information Hiding Techniques Based on Smartphones", Ph.D. Thesis, Computer Science Department, Faculty of Science, Minia University 2020.
- 19- Doaa Ahmed Moustafa, "Developing an efficient Algorithm for Big Data Clustering", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, October 2020.
- 20- Marwa Tarek Saleh Mohamed, "An Efficient Image Encryption Technique for Medical Image", M.Sc. Thesis, Department of Information Technology, Faculty of Computers and Artificial Intelligence, Cairo University, October 2020.
- 21- Eman Mohammed Hamdi, "Detection of Mental Health Problems via Social Networks Interactions", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, October 2020.
- 22- Doaa Ezat Shalby "Autonomous Nano-robotics System for Cancer Treatment", Ph.D. Thesis, Department of Scientific Computing, Faculty of Computer and Information Sciences, Ain Shams University, September 2020.
- 23- Marwah Ahmad Helaly "Developing a DNA Sequence Classification Model Using Deep Learning Methods", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. Egypt, July 2020.
- 24- Soha Saied Ibrahim ElShafie, "Identifying User Attitude Using Sentiment Analysis in Social Media", Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. July 2020.
- 25- Dina Mohammed Elsayiad, "High Performance Computing for Microarrays Data Analysis", Ph.D. Thesis, Department of Scientific Computing, Faculty of Computer and Information Sciences, Ain Shams University. May 2020.
- 26- Muhammad Sami Nafie, "Hybrid Genetic-FSM Technique For Detection Of High-Volume Dos/Ddos Attacks", M.Sc. Thesis, Department of Computer Engineering, Faculty of Computers and Information Technology, Arab Academy for Science, Technology and Maritime Transport, 2019.
- 27- Aya Mohammed Rashad, "Association Rules Based Classification for Autism Spectrum Disorder Detection", M.Sc. Thesis, Faculty of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport, 2019.
- 28- Sabah Sayed Abd El-Ghany, "A Computational Framework for Colorectal Cancer", Ph.D. Thesis, Department of Computer Science, Faculty of Computers and Information, Cairo University, June 2019.
- 29- Marwah Salah-Eldin Salem, "Personality Traits Prediction on Social Media", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, Egypt, May 2019.
- 30- Abdel-Rahman Hashem Mohamad, "Image Thresholding Based on Statistical Modelling for Character Localization on Natural Scene Images", Ph.D. Thesis, Department of Mathematics, Faculty of Science, Assiut University, April 2019.
- 31- Mena Samy Yousef Abdallah, "Semantic Framework for Information Retrieval from Big Data", M.Sc. Thesis, Department of Computer Science, Faculty of Computers and Information, Cairo University, April 2019.
- 32- Ali Khalil Ebrahim Hamady, "Signature Recognition and Verification System", M.Sc. Thesis, Department of Computer and System Engineering, Faculty of Engineering, Ain Shams University, April 2019.
- 33- Abdel-Rahiem Ahmed Hashem Mohammed, "Image Theresholding Based on Statistical Modelling for Characters Localization in Natural Scene Images", Ph. D. Degree in Mathematics/(Computer Science), Mathematics Department, Faculty of science, Assiut University, April 2019.
- 34- Dina Abdel Fattah Mosa, " Design of Novel Metaheuristic Techniques for Clustering", M.Sc. Thesis, Department of Computer Engineering, Faculty of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport, March 2019.

- 35- Sara Osama Anwar, "Data Mining Approach for Energy Management based on Internet of Things (IoT) Paradigm", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, March 2019.
- 36- Mayada Tarek Hassan El-Ghaysha, "Biometric Template Protection", Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Mansoura University, 2018.
- 37- Nevien Osama Mahmoud Ramadan, "The Effectiveness of Flipped Classroom Strategy Based on E-learning Platforms in the Development of Some Computer Skills for Preparatory Stage Pupils", M.Ed. Thesis, Department of the Curricula & Teaching Methods, Faculty of Education, Ain Shams University, December 2018.
- 38- Ahmed Reda Abd Elhamid, "Developing Corpus-based Bilingual Ontology for Machine Translation (English/Arabic)", M.Sc. Thesis, Faculty of Science, Banha University, Banha, Egypt, October 2018.
- 39- Enase Abbas Abdel-Magmaey, "Ontology based Disease Detection Using Data Mining", M.Sc. Thesis, Department of Information Science, Faculty of Computer and Information Sciences, Banha University, September 2018.
- 40- Bassem A. Essam, "Using Twitter to Build an Arabic- English lexicon of Contemporary Egyptian Colloquial and Informal English Words from a Sociolinguistic Perspective", M. Art. Thesis, Department of English, Faculty of Al-Alsun, Ain Shams University, August 2018.
- 41- Mohamad Atef Nasar, "A Novel Efficient GPU Based Method for Large Scale Recommender Systems", Ph.D. Thesis, Department of Computer and System Engineering, Faculty of Engineering, Alexandria University, August 2018.
- 42- Somaia Osama Mohamed, "Developing an Approach for Solving Ambiguity in Requirements Specification to UML Conversion", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, July 2018.
- 43- Sara Abdel-Wahab El-Sharqawi, "Developing a Predictive Model for Message Propagation on Online Social Networks", Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, July 2018.
- 44- Mariam Nabil Gawich, "Developing a System for Medical Ontology Maintenance", Ph.D. Thesis Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, April 2018.
- 45- Ehab Samir Mohamad, "Comparison and Enhancement of Hyperspectral Unmixing Algorithms and Techniques", M.Sc. Thesis, Department of Computer Science, Faculty of Computers and Information, Cairo University, April 2018.
- 46- Mona Mohamad Abdel-Monem, "Efficient Management of Substructure Search over Graph Database", Ph.D. Thesis, Department of Mathematics (Computer Science), Faculty of Science, Banha University, March 2018.
- 47- Eenas Abas Abd, "Ontology Based Disease Detection Using Data Mining", M.Sc. Thesis, Department of Information Systems, Faculty of Computer and Information Sciences, Banha University, February 2018.
- 48- Mohamed Galal El Saeed Rabiea, "Developing a Personalized Multi-Dimensional Bank Analysis System using Business Intelligence", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, December 2017.
- 49- Ehab Awad Mohamed, "Developing Safety Critical Software Systems Framework for Nuclear Power Plants (NPPs)," Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, December 2017.
- 50- Hassan Abdel-Sabour ElMadany, "Developing A Framework For Summarizing XML Documents", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, July 2017.
- 51- Noha Mahmoud Zakzouk, "Neural-Fuzzy Connectionist Semantic Memory Model", M.Sc. Thesis, Computer and Systems Engineering Department, Faculty of Engineering, Ain Shams University. July 2017.
- 52- Sally Saad Mohamed Ismail, "Ontology Based Approach for Automatic Text Summarization," Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. May 2017.
- 53- Eslam Fouad Mohamed Hamouda, "Binary Representation Techniques for Biometrics", Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Mansoura University, 2016
- 54- Mohamed Yehia Gawish, "Developing an Intelligent Computational Model for Human Episodic Learning", M.Sc. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Ain Shams University. May 2016.
- 55- Mahmoud Elbattah, "Intelligent Techniques for Analyzing and Processing Big Data," Ph.D. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. February 2017.
- 56- Wasim Ahmed Abdul-Aziz Alromima, "Developing Semantic-based System for Arabic Information Retrieval", Ph.D. Thesis, Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University. December 2016.
- 57- Sara El-Sayed Yousef El-Metwally, "Next Generation Sequence Assembly", Ph.D. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, November 2016.
- 58- Reham Mohammed El Sayed El Shamy, "Recognition Of White Blood Cells Cancer (Leukemia) using Neural Networks", M.Sc. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, November 2016.
- 59- Marwa Mamdouh Emam Khalef, "Digital Image Steganography in Spatial Domain", M.Sc. Thesis, Department of Computer Science, Faculty of Computers and Information, Cairo University, October 2016.
- 60- Hussein Ibrahim Abulkasim Hussein, "Securing Cloud Computing Using Quantum Cryptography", Ph.D. Thesis, Department of Mathematics (Computer Science), Faculty of Science, South Valley University, October 2016.

- 61- Mourad Aly, "A Multi-Stage Opponent Model for Strategy Prediction and Reasoning in Real-Time Strategy Games", M.Sc. Thesis, Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University, July 2016.
- 62- Dina Reda Khattab, "Content-aware Shape Deformation", Ph.D. Thesis, Department of Scientific Computing, Faculty of Computer and Information Sciences, Ain Shams University. July 2016.
- 63- Akram Gaballah Ahmed, "Acronyms Expansion Disambiguation and their effect on NLP tasks", M.Sc. Thesis, Department of Computer Science, Faculty of Computers and Information, Cairo University, July 2016.
- 64- Moustafa Mohamed Zein Hassan Karim, "A Reality Mining Model in Human Behavior", M.Sc. Thesis, Department of Computer Science, Faculty of Computers and Information, Cairo University, July 2016.
- 65- Hend Mahmoud Ali Kassem, "The Effectiveness of a Proposed Model Based on the Virtual Worlds for Training Preschool Child on Skill of Using the Learning Resources", Department of Education Technology, Faculty of Specific Education, Ain Shams University, April 2016.
- 66- Esraa Abdalla Abdelhamid, "Design of an Intelligent Strategic Planning Technique for Multi-Agent Systems", Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. April 2016.
- 67- Manar Jondy Hazar, "Improving Tasks Scheduling in Cloud Computing", M.Sc. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, 2016.
- 68- Hebatullah Rashed Younes, "Improving Computer Games Performance Using Batch Reinforcement Learning", M.Sc. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, 2016.
- 69- Ibrahim Ali, "Artificial Intelligence Approach To Diabetes Diagnostics" Department of Computer Science, Faculty of Computer and Information Sciences, Ain Shams University. November 2015.
- 70- Shimaa Said Abdel-Latif, "Effectiveness of the Design Wiki Media-based Participatory Learning Objects in the Development of Technology Education Students Attributes Toward him in the Light of Quality Standards", Department of Education Technology, Faculty of Specific Education, Ain Shams University, November 2015.
- 71- Hebat Allah Ahmed Abd Elaty Mohamed, "Design of Intelligent Educational System for Developing of Management Skills of The Electronic Classrooms with The Student Teachers," Educational Technology Department, Faculty of Education, Ain Shams University, November 2015.
- 72- Sabaa Khalaf Hamad, "Human Age Estimation on Machine learning Techniques", M.Sc. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, 2015.
- 73- Ahmed Mohammed Gad Allah, "Bi-level Uncertain programming for solving the interactive between in E-Commerce", M.Sc. Thesis, Information System Department, Faculty of Computer and Information, Helwan University, 2015.
- 74- Alaa M. Ahmed, "State-Based Testing of Web Applications", Ph.D. Thesis, Computer Science department, Faculty of Science, Minia University, 2015.
- 75- Mohamed Badr Mostafa Elsayed, "Development of Efficient Quality Models for Critical Systems", M.Sc. Thesis, Information System Department, Faculty of Computer and Information, Helwan University, 2015.
- 76- Samah Ahmed Zaki Hassan, "A Proposed Architecture for Developing Cloud Computing Applications", Ph.D. Thesis, Information System Department, Faculty of Computer and Information, Helwan University, 2015.
- 77- Waleed Mohammed Al-Adrousy, "Collaboration and Version Control Architecture Using Social Networks," Ph.D. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, 2014.
- 78- Mosab Abd El-Hameed Mohamed Hassan, "Using Indexing for Efficient Mining and Query Processing in Graph Databases", Ph.D. Thesis, Department of Mathematics, Faculty of Science, Banha University, October 2013.
- 79- Engy Yahya Sayed Ebraheem, "A More Efficient Approach for Web Search", Department of Business Information Technology, Faculty of Computer and Information, Helwan University, September 2013.
- 80- Shadia Salah El-Din Sarhan, "Power-Aware Routing Protocol for Mobile Ad Hoc Networks", Ph.D. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, July 2013.
- 81- Metwally Rashad Omar, "On String Representation for Efficient Mining and Searching Over String Database", M.Sc. Thesis, Department of Mathematics, Faculty of Science, Banha University, December 2012.
- 82- Abear Elsaid Ahmed Elbeshbeshee, "Medical Image Processing", Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, 2012.
- 83- Yasser Hamed Ahmed Elewady, "A General Framework for Remote Lab Access", Ph.D. Thesis, Computer Science Department, Faculty of Computer and Information Sciences, Mansoura University, 2011.

### **Computer Experience:**

Programming Languages: Java, C#, Python, C, Pascal, PL/1, ADA, Fortran, Cobol, Lisp, And Prolog.  
 Language Environments: Java, Visual C++, C#, Visual Basic, and CLIPS  
 Operating Systems: Unix, Windows, and Android.

### **Professional Activities:**

- 3- National Committees
  - The Egyptian Supreme Console of the Universities (SCU) committee for "follow up of the universities staff e-portfolio" dated by November 4, 2014-now. In progress.
  - Higher Education Ministry 3-members committee for "Approving appointment of academic staff Commerce and



- Computer academic institutions”, November 2012-Now.
- Member of referees of the Egyptian Universities Promotion Committee of Computer Science and Information 2009-now.
  - عضو لجنة محكمين جائزة جامعة عين شمس التقديرية 2017
  - External Examiner for Diploma, M.Sc., and Ph.D. programs, Department of Computer Science, Faculty of Computer and Information, Cairo University, March 2016.
  - Higher Education Ministry committee for “Information & Communication Technology Projects (ICTP) evaluation” formed by ministry order number 928 dated by March 27, 2014. Final reported submitted by May 20, 2014.
- 4- Journal Refereeing
- International Journal of Intelligent Computing and Information Science 2009
  - Arabian Journal for Science and Engineering, KFUPM, Saudi Arabia 2000-2004
  - Journal of Intelligent & Robotic Systems, Kluwer Academic Publishers, 2001
  - Saudi Computer Journal, Saudi Arabia
  - Journal of King Abdulaziz University, Engineering Sciences
  - Journal of King Saud University, Computer & Information Sciences Division
  - Journal of Science and technology, Sultan Qaboos University, Oman
- 5- Conference Refereeing
- The 12th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, June 29-July 2, 2008.
  - The 10<sup>th</sup> World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 16-19, 2006.
  - The 9<sup>th</sup> World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 10-13, 2005.
  - The 6th World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 14 - 18, 2002
  - The 5th World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 22 - 25, 2001
  - Internet Gulf's C Conference, 1998
  - 15<sup>th</sup> National Computer Conference, NCC97, 1997
  - 4<sup>th</sup> Saudi Engineering Conference, 1995
  - 14<sup>th</sup> National Computer Conference, 1995
  - 37<sup>th</sup> Midwest Symposium on Circuit and Systems, USA, 1994
  - 12<sup>th</sup> National Computer Conference, 1990
- 6- Conference Committees
- IEEE Eighth Int. Conference on Intelligent Computing and Information Systems (ICICIS 2017) Cairo, Egypt, 5 - 6 December, 2017
  - IEEE Seventh Int. Conference on Intelligent Computing and Information Systems (ICICIS 2015) Cairo, Egypt, 12 - 14 December, 2015
  - Sixth International Conference on Intelligent Computing and Information Systems (ICICIS 2013) Cairo, Egypt, 21-23 December, 2013.
  - Fifth International Conference on Intelligent Computing and Information Systems (ICICIS 2011) Cairo, Egypt, 30 June – 3 July, 2011.
  - International Conference on Computing, Communications and Control Technologies: CCCT'04, Austin, Texas, USA, August 14-17, 2004
  - The 8th World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 18 - 21, 2004
  - The 7th World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 27 - 30, 2003
  - The 6th World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 14 - 18, 2002
  - International Conference on Industrial Electronics, Technology & Automation, IETA 2001, 19-21 December 2001, Cairo – Egypt, 2001
  - The 5th World Multi-conference on Systemics, Cybernetics and Informatics, Orlando-Florida, USA, July 22 - 25, 2001
  - The Third Workshop of Information and Computer Science (WICS'2000), KFUPM, Saudi Arabia, 2000.
  - The Second Workshop of Information and Computer Science (WICS'98), KFUPM, Saudi Arabia, 1998
  - The First Workshop of Information and Computer Science (WICS I), KFUPM, Saudi Arabia, 1996
  - Int. Symposium on Computer and Inf. Technology in the Health Field, Riyadh, Saudi Arabia, 1995
- 7- Editorial
- Proceedings of the First Workshop of Information and Computer Science (WICS I), 1996
  - Proceedings of the Second Workshop of Inf. and Computer Science (WICS'98), 1998

## Book Chapter

- 1- **Big Data Analytics: Tools and Technology for Effective Planning**, Arun K. Somani, Ganesh Chandra Deka, editors. October 2017, ISBN 9781138032392 - CAT# K30711, <https://www.crcpress.com/Big-Data-Analytics-Tools-and-Technology-for-Effective-Planning/Somani-Deka/p/book/9781138032392>  
Chapter 14: “Large-Scale Entity Clustering Based on Structural Similarities within Knowledge Graphs”  
Authors: Mahmoud Elbattah, Mohamed Roushdy, Mostafa Aref, and Abdel-Badeeh M. Salem
- 2- **Machine Learning and Big Data Analytics Paradigms: Analysis, Applications and Challenges**, Editors: Hassanien, Aboul-Ella, Darwish, Ashraf, Springer, Cham, 2019  
Marwa. Helaly, Shreen Rady, Mostafa Aref, “Deep Learning for Taxonomic Classification of Biological Bacterial Sequences”, Book chapter.

## Publications

### 2022

1. Marwah A Helaly, Sherine Rady, Mostafa M Aref, "BERT contextual embeddings for taxonomic classification of bacterial DNA sequences", **Expert Systems with Applications Journal**, Volume 208, Pages 117972, December 2022.
2. Mohamed Galal, Sherine Rady, Mostafa Aref, "Enhancing Customer Churn Prediction in Digital Banking using Ensemble Modeling", Proceeding of 4th Novel Intelligent and Leading Emerging Sciences Conference (NILES), Cairo, Egypt, October 2022.
3. Abdel-badeeh Alokla, Anas, Gad, Walaa, Nazih, Waleed, Aref, Mostafa, Salem, "Pseudocode Generation from Source Code Using the BART Model", *Mathematics Journal*, Volume 21, issue 10, MDPI, Postfach, CH - 4020 Basel, Switzerland, October 2022.
4. Esraa Abdelhamid, Sally Ismail, Mostafa Aref, "Enneaontology: Towards an Enneagram Personality Detection", 3rd International Conference on Advances in Computer Engineering and Communication Systems, Hyderabad, India, August 11-12, 2022.
5. Anas Hamid Alokla, Walaa Gad, Mostafa Aref, Abdel-Badeeh M Salem, "Source code generation-based on NLP and ontology", **International Journal of Intelligent Computing and Information Sciences (IJICIS)** Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 22, Pages 1-12, July 2022.
6. Hassan El Madany, Marco Alfonse, Mostafa Aref, "Procurement Forecasting In Enterprise Resource And Planning (Erp) System Using Hybrid Time Series Model", *Journal of Southwest Jiaotong University*, Volume 57, Pages 347-354, Chengdu, China. June 2022.
7. Mohamed Galal, Tamer Salah, Mostafa Aref, Esam ElGohary, "Smart Support System for Evaluating Clustering as a Service: Behaviour Segmentation Case Study", *International Journal of Intelligent Computing and Information Sciences(IJICIS)* Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 22, Pages 35-43, May 2022.
8. Hassan El Madany, Marco Alfonse, Mostafa Aref, "Hybrid Time Series Model For Procurement Forecasting In Enterprise Resource And Planning (Erp) System: A Case Study", *Journal of Southwest Jiaotong University*, Volume 57, Pages 294-304, Chengdu, China. February 2022.
9. Esraa Abdelhamid, Sally Ismail, Mostafa Aref, "Enneaontology: A Proposed Enneagram Ontology", *Enneaontology: A Proposed Enneagram Ontology*, Springer, Pages 559-567, Singapore, July 2022.
10. Donia Gamal, Marco Alfonse, Salud María Jiménez-Zafra, Mostafa Aref, "Survey of Arabic Machine Translation, Methodologies, Progress, and Challenges", 2022 2nd International Mobile, Intelligent, and Ubiquitous Computing Conference (MIUCC), IEEE, Pages 378-38, Cairo, Egypt, May 2022.
11. Yomna A Kawashti, Dina Khattab, Mostafa M Aref, "Jigsaw Self-Supervised Visual Representation Learning: An Applied Comparative Analysis Study", 2022 2nd International Mobile, Intelligent, and Ubiquitous Computing Conference (MIUCC), IEEE, Pages 183-188, Cairo, Egypt, May 2022.
12. Yasmin Alaa, Marco Alfonse, Mostafa M Aref, "A Survey on Generative Adversarial Networks based Models for Many-to-many Non-parallel Voice Conversion, " 2022 5th International Conference on Computing and Informatics (ICCI), IEEE, IEEE, Pages 221-226, Cairo, Egypt, March 2022.
13. Moataz Mohammed, Salsabil Amin, Mostafa M Aref, "An English Islamic Articles Dataset (EIAD) for developing an IslamBot Question Answering Chatbot", 2022 5th International Conference on Computing and Informatics (ICCI), IEEE, IEEE, Pages 303-309, Cairo, Egypt, March 2022.
14. Moataz Mohammed, Mostafa M Aref, "Chatbot System Architecture", *arXiv Journal*, Cornell Univeristy, 2022.
15. Mostafa Mahmoud Aref, Bassant M Elbagoury, Waleed Hassanin, "Designing an Intelligent Agents for E-Bookstore System Web-Based System", *Proceedings of Sixth International Congress on Information and Communication Technology*, pages 321-330, London, UK, 2022.
16. Hassan ElMadany, Marco Alfonse, Mostafa Aref, "Forecasting in Enterprise Resource Planning (ERP) Systems: A Survey", *Conference of Digital Transformation Technology, Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 224)*, pp 395–406, Springer, 2022.

### 2021

17. Salma Abdelhamid, Mostafa Aref, Islam Hegazy, Mohamed Roushdy, "A Survey on Learning-Based Intrusion Detection Systems for IoT Networks" 2021 Tenth International Conference on Intelligent Computing and Information Systems (ICICIS), IEEE, Cairo, Egypt, Pages 278-288 December 2021.
18. Ghada M Elshamy, Marco Alfonse, Mostafa M Aref, "A GuessWhat?! Game for Goal-Oriented Visual Dialog: A Survey", 2021 Tenth International Conference on Intelligent Computing and Information Systems (ICICIS), IEEE, Cairo, Egypt, Pages 116-123, December 2021.
19. Noorhan Khaled, M Aref, "Bidirectional Temporal Context Fusion with Bi-Modal Semantic Features using a gating mechanism for Dense Video Captioning", *International Journal of Intelligent Computing and Information Sciences, (IJICIS)* Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 21, Number 2, pages 1-22, July 2021.
20. Ahmed Saeed, Sally Saad, Mostafa Aref, "Mining publication papers via text mining Evaluation and Results", *International Journal of Intelligent Computing and Information Sciences(IJICIS)* Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 21, Number 1, pages 68-83, March 2021.

21. Hassan ElMadany, Marco Alfonse, Mostafa Aref, "A Proposed Approach for Production in ERP Systems Using Support Vector Machine Algorithm", *International Journal of Intelligent Computing and Information Sciences*, Volume 21, Issue 1, Pages 49-58, Ain Shams University, Faculty of Computer and Information Science, 2021.
22. Doaa Ahmed Sayed, Sherine Rady, Mostafa Aref, "Optimized Multi-Core Parallel Tracking for Big Data Streaming Applications", *Journal: Advances in Science*, Issue 3, Pages 286-295, Science, 2021.
23. Marwah A Helaly, Sherine Rady, Mostafa M Aref, "Deep Learning for Taxonomic Classification of Biological Bacterial Sequences", *Book Chapter: Machine Learning and Big Data Analytics Paradigms: Analysis, Applications and Challenges*, Pages 393-413, Publisher: Springer, Cham, 2021.
24. Sarah Anis, Sally Saad, and Mostafa Aref, "Deep Learning-Based Approach for Sentiment Classification of Hotel Reviews", *Proceeding of 3rd International Conference on Communication and Computational Technologies (ICCT 2021)*, Jointly Organized by Rajasthan Institute of Engineering and Technology Jaipur and Rajasthan Technical University Kota in Association with Soft Computing Research Society, pp 211-218, February 27- 28 , 2021.

## 2020

25. Sarah Anis, Sally Saad, Mostafa Aref, "A survey on sentiment analysis in tourism", *International Journal on Intelligent Computing and Information Sciences (IJCICIS) Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt*, Volume 20, Number 1, July 2020.
26. Noorhan K Fawzy, Mohammed A Marey, Mostafa M Aref, "Video Captioning Using Attention Based Visual Fusion With Bi-Temporal Context And Bi-Modal Semantic Feature Learning", *International Conference on Advanced Intelligent Systems and Informatics*, Pages 65-78, Publisher: Springer, Cham, 2020.
27. Eman Hamdi, Sherine Rady, Mostafa Aref, "A Deep Learning Architecture with Word Embeddings to Classify Sentiment in Twitter", *International Conference on Advanced Intelligent Systems and Informatics*, Pages 115-125, Publisher: Springer, Cham, 2020.
28. Sarah Anis, Sally Saad, Mostafa Aref, "Sentiment Analysis Of Hotel Reviews Using Machine Learning Techniques", *International Conference on Advanced Intelligent Systems and Informatics*, Pages 227-234, Publisher: Springer, Cham, 2020.
29. Soha Ibrahiem, Sally. Ismail, Khaled Bahnasy, Mostafa Aref, "A Case Study in Multi-Emotion Classification via Twitter", *Proceeding of IEEE12th International Conference on Electrical Engineering (ICEENG)*, Pages 115-120, Cairo, Egypt, July 2020.
30. Doaa. Sayed ; Sherine. Rady ; Mostafa. Aref, "Enhancing CluStream Algorithm for Clustering Big Data Streaming over Sliding Window", *Proceeding of IEEE12th International Conference on Electrical Engineering (ICEENG)*, Pages 108-114, Cairo, Egypt, July 2020.
31. Wa'el Mohsen, Mostafa Aref, Khaled ElBahnasy, "Cooperative Domain Ontology Reduction Based on Power Sets", *Proceedings of the 2020 The 6th International Conference on Frontiers of Educational Technologies*, Pages 196-203, Tokyo Japan June, 2020.
32. Wa'el Mohsen, Mostafa Aref, Khaled ElBahnasy, "Blockchain as a Platform for Collaborative Ontology Evolution", *Proceedings of the 2020 The 6th International Conference on Frontiers of Educational Technologies*, Pages 183-190, Tokyo Japan June, 2020.
33. Wa'el Mohsen, Mostafa Aref, Khaled ElBahnasy, "Scaled Scrum Framework for Cooperative Domain Ontology Evolution", *Proceedings of the 2020 The 6th International Conference on Frontiers of Educational Technologies*, Pages 135-143, Tokyo Japan June, 2020.
34. Ahmed Ibrahim, Ssally Saad, Mostafa Aref, "Mining Publication Papers via Text Mining: A Case Study", *Proceedings of Joint European-US Workshop on Applications of Invariance in Computer Vision (AICV2020)*, Pages 71-80, Cairo, Egypt, 2020.
35. Ebtsam Mohamed, Samir Elmougy, Osman Ali Sadek Ibrahim, Mostafa Aref, "Semantic Relatedness Based Query Translation Disambiguation Approach for Cross-Language Web Search", *International Journal of Advanced Science and Technology*, Volume 29, Issue 1, Pages 1664 – 1680, SERSC Australia, 2020.

## 2019

36. Ebtsam Mohamed, Samir Elmougy, Mostafa Aref, "Toward multi-lingual information retrieval system based on internet linguistic diversity measurement", *Elsevier Ain Shams Engineering Journal*, Pages 489-497 Volume 10, Issue 3, July 2019.
37. Soha Ibrahiem, Sally. Ismail, Khaled Bahnasy, Mostafa Aref, "Multi-Emotion Classification Evaluation via Twitter", *Proceedings of IEEE Ninth International Conference on Intelligent Computing and Information Systems (ICICIS)*, Pages 60-67, Cairo Egypt, 2019.
38. Noorhan Khaled, Mohammed Marey, Mostafa Aref, "Temporal Action Detection with Fused Two-Stream 3D Residual Neural Networks and Bi-Directional LSTM", *Proceedings of IEEE Ninth International Conference on Intelligent Computing and Information Systems (ICICIS)*, Pages 130-140, Cairo Egypt, 2019.
39. Marwa A. Helaly, Sherine Rady, Mostafa M. Aref, "Convolutional Neural Networks for Biological Sequence Taxonomic Classification: A Comparative Study", *Proceeding of International Conference on Advanced Intelligent Systems and Informatics*, pp 523-533, Cairo, Egypt, 2019.
40. Marwa S. Salem, Sally S. Ismail, Mostafa Aref, "Personality Traits for Egyptian Twitter Users Dataset", *ICSIE '19 Proceedings of the 2019 8th International Conference on Software and Information Engineering*, Pages 206-211, Cairo, Egypt, April 09 - 12, 2019

41. Soha Ibrahiem, Sally. Ismail, Khaled Bahnasy, Mostafa Aref, "Multi-Emotion Classification Evaluation via Twitter", Proceedings of IEEE Ninth International Conference on Intelligent Computing and Information Systems (ICICIS), Pages 60-67, Cairo Egypt, 2019.
42. Noorhan Khaled, Mohammed Marey, Mostafa Aref, "Temporal Action Detection with Fused Two-Stream 3D Residual Neural Networks and Bi-Directional LSTM", Proceedings of IEEE Ninth International Conference on Intelligent Computing and Information Systems (ICICIS), Pages 130-140, Cairo Egypt, 2019.

## 2018

43. Soha Ibrahiem, Khaled Bahnasy, Mohamad Morsey, Mostafa Aref, "Feature Extraction Enhancement in Users' Attitude Detection", International Journal on Intelligent Computing and Information Sciences (IJICIS) Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 18, Number 2, April 2018.
44. Dalia Fadl, Safia Abbas, Mostafa Aref, "Automatic Arabic Ontology Generation For The Animal Kingdom (NAAO)", Journal Of Theoretical & Applied Information Technology, Volume 96, Issue 1, Islamabad, Pakistan, January 2018.
45. Bacem A Essam, Mostafa M Aref, Fayrouz Fouad, "When folkloric geopolitical concerns prompt a conspiratorial ideation: the case of Egyptian tweeters", GeoJournal, Springer Netherlands, Pages 1-13, February 2018.
46. Mariam Gawich, Marco Alfonse, Mostafa Aref, Abdel-Badeeh M. Salem, "Medical Ontology Maintenance: A Multiple Sclerosis Case Study", International Journal Of Computers And Communications, Volume 12, Pages 10-14, New Jersey, USA, 2018.
47. Eman Hamdi, Sherine Rady, Mostafa Aref, "A Convolutional Neural Network Model for Emotion Detection from Tweets", Proceeding of International Conference on Advanced Intelligent Systems and Informatics, pp 337-346, Cairo, Egypt, August, 2018.

## 2017

48. Ehab Shafei, Hany Sallam, Mostafa Aref "NFRs Model for Nuclear Power Plants", International Journal of Science and Engineering Applications, Volume 6 Issue 02, ISSN-2319-7560, New Jersey, USA, 2017.
49. Ahmed R. Elmahalawy, Mostafa M. Aref "Design a Corpus Based Approach for Bilingual Ontology Arabic-English", International Journal of Computer Science Trends and Technology (IJCT) – Volume 5 Issue 6, pp 98-103, India, Nov - Dec 2017.
50. Mariam Gawich, Marco Alfonse, Mostafa Aref, and Abdel-Badeeh M. Salem "Developing a System for Medical Ontology Evolution", Egyptian Computer Science Journal, Volume 41– Issue 2, pp 53-62, Cairo, Egypt, May 2017.
51. Mariam Gawich, Marco Alfonse, Mostafa Aref, Abdel-Badeeh M Salem, "Ontology Maintenance System for Rheumatoid Disease", 2nd. International Conference on Knowledge Engineering and Big Data Analytics KE & BDA, Cairo, Egypt, 2017.
52. Mariam Gawich, Marco Alfonse, Mostafa Aref, Abdel-Badeeh M Salem, "Development of Rheumatoid Ontology", Eighth International Conference on Intelligent Computing and Information, Cairo, Egypt, 2017.
53. Wa'el Mohsen, Mostafa Aref, Khaled ElBahnasy "Software Metrics for Cooperative Scrum Based Ontology Analysis", 2nd International Conference on Knowledge Engineering and Applications, 21–23 October 2017, London, United Kingdom, 2017.
54. Dalia Fadl, Safia Abbas, Mostafa Aref "Automatic Arabic Ontology Construction Framework: An Insectivore's Animal Case Study", International Conference on Advanced Intelligent Systems and Informatics, pp 458-466, Cairo, Egypt, 2017.

## 2016

55. Abdel-Badeeh M. Salem, Mostafa M. Aref, Moawad IF, Marco Alfonse, Galal AL Marzoqi, "Ontological Engineering in Medical Informatics", International Journal of Genomics, Proteomics, Metabolomics & Bioinformatics (IJGPMB), Vol. 1 Issue (2), pp 9-13, DirectScience, 2016.
56. Mariam Gawich, Marco Alfonse, Mostafa Aref, and Abdel-Badeeh M. Salem, "Ontology Evolution A Comparative Study", International Journal of Applications of Fuzzy Sets and Artificial Intelligence, (ISSN 2241-1240), Vol. 6, pp. 191-211, Scientific Information Database, 2016.
57. Mariam Gawich, Marco Alfonse, Mostafa Aref, and Abdel-Badeeh M. Salem, "Ontology Evolution Approaches in Medical Domain," International Journal of Biology and Biomedical Engineering, Volume 10, pp. 219-224, New Jersey, USA, 2016.
58. Mariam Gawich, Marco Alfonse, Mostafa Aref, Xavier Tannier, Abdel-Badeeh M. Salem, "Term Matching Approaches in E-Commerce," International Journal "Information Technologies & Knowledge" Volume 10, Number 1, pp. 3-11, Bulgaria, 2016.
59. Waseem Alromima, Ibrahim F Moawad, Rania Elgohary, Mostafa Aref, "Ontology-based Query Expansion for Arabic Text Retrieval", International Journal of Advanced Computer Science and Applications, Volume 7, Issue 8, pp 223-230, United Kingdom, 2016.
60. Mohamed Galal, Ghada Hassan, Mostafa Aref "Developing a Personalized Multi-Dimensional Framework using Business Intelligence Techniques in Banking", Proceedings of the 10th International Conference on Informatics and Systems, pp 21-27, Giza, Egypt, 2016.
61. Mahmoud Elbattah, Mohamed Roushdy, Mostafa Aref, Abdel-Badeeh M. Salem, "FreebaseViz: Interactive Exploration of Freebase Schema Using Query-Driven Visualization", International Conference on Communication, Management and Information Technology (ICCMIT 2016), At Cosenza, Italy, April 2016.
62. Mohamed Galal, Ghada Hassan, Mostafa Aref, "A Survey on Personalization for Improved Intelligent CRM", Proceedings of First International Conference "Business in a dynamic world", Cyprus, January 2016.

## 2015

63. Waseem Alromima, Ibrahim Moawad, Rania Elgohary, Mostafa Aref, "Ontology-Based Model for Arabic Lexicons: An Application of the Place Nouns in the Holy Quran", 11th International Computer Engineering Conference Cairo University (ICENCO 2015), pages 134-140, December 29-30, 2015.
64. Sally Ismail, Mostafa Aref, Ibrahim F. Moawad, "A Model for Generating Arabic Text from Semantic Representations", 11th International Computer Engineering Conference Cairo University (ICENCO 2015), pages 134-140, December 29-30, 2015.
65. Mariam Gawich, Mostafa Aref, Abdel-Badeeh M. Salem, Xavier Tannier, "Medical Term matching Approaches", 7th IEEE International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2015.
66. Mahmoud Elbattah, Mohamed Roushdy, Mostafa Aref, Abdel-Badeeh M. Salem, "Large Scale Ontology Storage and Query Using Graph Database Oriented Approach: The Case of Freebase", 7th IEEE International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2015.
67. Mourad Aly, Mohammad Hassan, Mostafa Aref, "Dimensions-Based Classifier for Strategy Classification of Opponent Models in Real-Time Strategy Games", 7th IEEE International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2015.
68. Hassan A. Elmadany, Marco Alfonse, Mostafa M. Aref, "Semantic-Based Approaches for XML Summarization", 7th IEEE International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2015.
69. Waseem Alromima, Ibrahim Moawad, Rania Elgohary, Mostafa Aref, "Applying Ontological Engineering Approach for Arabic Quran Corpus: A comprehensive Survey", 7th IEEE International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2015.
70. Somaia Osama, Safia Abbas, Mostafa Aref, "Developing an Approach for Solving Ambiguity in Requirements Specification to UML Conversion", The Fifteenth Conference on Language Engineering, December 9-10, Cairo, Egypt, 2015.
71. Soha S. Ibrahim, Mostafa M. Aref, "NLP in Social Media: An Overview", The Fifteenth Conference on Language Engineering, December 9-10, Cairo, Egypt, 2015.
72. Mahmoud A Wahdan, Safia Abbas, Mostafa Aref, "CMET: A Semantic Framework for Comparing and Merging Entities and Terms and Its Application in Answer Selection", The Fifteenth Conference on Language Engineering, December 9-10, Cairo, Egypt, 2015.
73. Hassan A. Elmadany, Marco Alfonse, Mostafa M. Aref, "XML Summarization: A Survey", The Fifteenth Conference on Language Engineering, December 9-10, Cairo, Egypt, Pages 68-67, 2015.
74. Zeidan, Mahmoud; Nazmy, Taymoor; Aref, Mostafa, "GPU-based Out-of-Core HLBVH Construction", Eurographics Symposium on Rendering - Experimental Ideas & Implementations, June 23-26, Austria, 2015.
75. Mahmoud Elbattah, Mohamed Roushdy, Mostafa Aref, Abdel-Badeeh M. Salem, "Exploring Domain Interrelations in Freebase Schema Using Modularity-Based Community Detection", ICIT 2015, the 7th International Conference on Information Technology, pages 443-448, May 12-15, Singapore, 2015.
76. Ibrahim Ahmed, Marco Alfonse, Mostafa M. Aref, Abdel-Badeeh M. Salem, "Reasoning Techniques for Diabetics Expert Systems", International Conference on Communications, management, and Information technology (ICCMIT'2015), Volume 65, Pages 813-820, April 20-22, Czech Republic, 2015.

## 2014

77. Mahmoud Elbattah, Mohamed Roshdy, Mostafa M. Aref, Abdel-Badeeh M. Salem, "Graph-Driven Analysis And Visualisation Of Freebase Schema As A Directed Weighted Graph", European Journal of Computer Science and Information Technology Vol.2, No.4, pp. 40-48 December 2014.
78. Marco Alfonse, Mostafa M. Aref, Abdel-Badeeh M. Salem, "An Ontology-Based System for Cancer Diseases Knowledge Management". **International Journal of Information Engineering and Electronic Business(IJIEEB), Vol. 6, No. 6, 55-63, December 2014.**
79. Khaled El-bahnasy, Kareem Mohamed Naguib and Mostafa Aref. "A Novel Case base Indexing Model based on Power Set Tree", International Journal of Computer Applications 97(7): pages 1-8, July 2014.
80. Mahmoud Elbattah, Mohamed Roshdy, Mostafa M. Aref, Abdel-Badeeh M. Salem, "Exploring Freebase Potentials for Big Data Challenges", International Journal of Computer and Information Technology (ISSN: 2279 – 0764), Volume 03 – Issue 03, May 2014.
81. Mostafa Aref, Ibrahim Fathy Moawad, Marwa Mahmoud, "A Survey on Graph Reduction Methods and Applications", Egyptian Journal of Language Engineering, Vol. 1, No. 2, September 2014.
82. Waseem Alromima, Ibrahim Moawad, Rania Elgohary, Mostafa Aref, "Extracting N-Gram Terms Collocation From Tagged Arabic Corpus," Proceedings of the 9th International Conference on Informatics and Systems (INFOS), pp. 10-15, Cairo, Egypt, 15-17, Dec. 2014.
83. Mahmoud A Wahdan, Safia Abbas, Mostafa Aref, "Designing a Hybrid Approach for Answer Extraction for Factoid Questions", Proc. of the Fourteenth Conference on Language Engineering, Dec. 2014.

## 2013

84. Marco Alfonse, Mostafa M. Aref, Abdel-Badeeh M. Salem. "Developing an Ontology-Based Multi-Agent Tool for Cancer Diseases Knowledge Management". International Journal of Applications of Fuzzy Sets and Artificial Intelligence (ISSN 2241-1240), Vol.3, PP: 5-22, March 2013.

86. Mahmoud Elbattah , Mostafa Aref , and Abdel-Badeeh M. Salem, “A Study on the Intelligent Techniques for Analyzing and Processing Big Data”, 6th International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2013.
87. Ibrahim M. Ahmed (Sudan), Abeer M. Mahmoud, Mostafa Aref, Abdel-badeeh M. salem, “Knowledge Acquisition for the Development of an Expert System for Diabetic Type-2 Diet”, 6th International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2013.
88. Ehab Shafei, Hany Sallam, Mostafa Aref, “Safety Analysis for Safety Critical Software Systems”, 6th International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2013.
89. Ghada M.Farouk, Ibrahim F. Moawad, Mostafa Aref, “A CBR-inspired Approach for Opponent Modeling in Real Time Strategy Games”, 6th International Conference on Intelligent Computing and Information Systems (ICICIS), 12-14 Cairo, Egypt, December 2013.
90. Ghada Farouk, Ibrahim Moawad, Mostafa Aref, “Generic opponent modelling approach for real time strategy games”, 2013 8th International Conference on Computer Engineering & Systems (ICCES), Nov. 27-28, 2013.
91. Kareem Mohamed Naguib, Khaled El-Bahnasy, Mostafa Aref, “An Enhanced Approach for Cases Indexing and Retrieval in Case-Based Reasoning”, Proceedings of the 4th European Conference of Computer Science, (ECCS'13), pp. 115-122, Paris, France October 29-31, 2013.
92. Sally S. Ismail, Ibrahim F. Moawad, Mostafa Aref, “Arabic Text Representation using Rich Semantic Graph: A Case Study”, Proceedings of the 4th European Conference of Computer Science, (ECCS'13), pp. 148-153, Paris, France October 29-31, 2013. Dubrovnik, Croatia, June 25-27, 2013.
93. Sally S. Ismail, Mostafa Aref, Ibrahim Moawad, “Rich Semantic Graph: A New Semantic Text Representation Approach for Arabic Language,” Proceedings of the 4th European Conference for the Applied Mathematics and Informatics (AMATHI '13), pp. 97-102, 2013.
94. Marco Alfonse, Mostafa M. Aref, Abdel-Badeeh M. Salem. “An Ontology-Based Cancer Diseases Diagnostic Methodology”. Proceedings of the 7th European Computing Conference (ECC '13), PP. 95-99, Dubrovnik, Croatia, pages 95-99, June 25-27, 2013.
95. Ehab Shafei, Ibrahim F. Moawad, Hany Sallam, Zaki Taha, Mostafa Aref, “A Methodology for Safety Critical Software Systems Planning”, Proceeding of the 7th European Computing Conference (ECC '13), pp 173-178, Dubrovnik, Croatia, June 25-27, 2013.
96. Hany Sallam, Mostafa Aref, “Mapping Fault Tree into Fuzzy Algorithms for Nuclear Safety Analysis,” Proceeding of the 7th European Computing Conference (ECC '13), pp 182-187, Dubrovnik, Croatia, June 25-27, 2013.
97. Ibrahim M. Ahmed, Abeer M. Mahmoud, Mostafa Aref, Abdel-Badeeh M. Salem, “A study on Expert Systems for Diabetic Diagnosis and Treatment”, Proceeding of the 7th European Computing Conference (ECC '13), pp 363-367, Dubrovnik, Croatia, pages 363-367, June 25-27, 2013.
98. Ibrahim Moawad, Mostafa Aref “Semantic Graph Reduction Approach for Abstractive Text Summarization”, The 2012 International Conference on Computer Engineering & Systems (ICCES'2012), November 27th – 29th, Cairo, Egypt, 2012.
99. Ibrahim Moawad, Dalia Sayed, Mostafa Aref “Rich Semantic Representation Based Approach for Text Generation” The 8th International Conference on Informatics and Systems, May 14-16, Cairo, Egypt, 2012.
100. Marco Alfonse, Mostafa M. Aref, Abdel-Badeeh M. Salem. “Ontology-Based Knowledge Representation for Liver Cancer”. Proceedings of the International eHealth, Telemedicine and Health ICT Forum for Educational, Networking and Business. Luxembourg, G. D. of Luxembourg, ISSN 1818 – 9334, PP: 821-825, April 18-20, 2012.
101. Aref M., Zakaria M., and Sarhan S., ” Real-Time Strategy Experience Exchanger Model [Real-See]”. IJCSI International Journal of Computer Science Issues, vol. 8, issue 3,pp. 360-368, 2011.
102. Mohamed Saber, Mostafa Aref, Tarek Gharib, “Processing Structural Queries on Graph Databases Efficiently”, **International Journal on Very Large Data Bases (VLDB Journal)**, 2011.
103. Ibrahim Moawad, Mostafa Aref, Soha Ibrahim, “Ontology-Based Model For Generating Text Semantic Representation”, **International Journal on Intelligent Computing and Information Sciences (IJICIS)** Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 11, Number 1, January 2011.
104. Dalia Sayed, Mostafa Aref, Ibrahim Fathy “Text Generation Model from Rich Semantic Representations” The Eleventh Conference on Language Engineering, December 7-8, Cairo, Egypt, Pages 68-67, 2011.
105. Marco Alfonse, Mostafa M. Aref, Abdel-Badeeh M. Salem. “An Overview of Ontology Learning From Unstructured Texts”. Proceedings of the Eleventh International Conference on Informatics (INFORMATICS 2011), Rožňava, Slovakia, ISBN 978-80-89284-94-8, PP: 169-174, November 16-18, 2011.
106. Marco Alfonse, Mostafa M. Aref, Abdel-Badeeh M. Salem. “Ontological Engineering Approach for Creating a Semantic Web Service for Determining the Stage of Breast Cancer”. Proceedings of the 7th International Conference of EURO-MEDITERRANEAN MEDICAL INFORMATICS and TELEMEDICINE (EMMIT 2011), Tirana, Albania, PP: 72 – 78, November 10–12, 2011.
107. Sally Saad, Ibrahim Moawad, and Mostafa Aref, "Ontology-Based Approach for Arabic Text Summarization". proceeding of International Conference on Intelligent Computing and Information Systems (ICICIS), pp 18-22, Egypt July 2011.
108. Mostafa Aref, Ibrahim Fathy, Dalia Sayed “Natural language Generation Sentence Planner” Fifth International Conference on Intelligent Computing and Information Systems (ICICIS 2011) Cairo, Egypt, p22. June 2011.

109. H. Darweesh, M. Roshdy, M. Aref, Said Ghoniemy, "Implementation of Robot Unified Control Language (R-UCL) Runtime Engine Using Microsoft Robotics Developer Studio (MRDS)", International Journal on Intelligent Computing and Information Sciences (IJICIS) Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 10, Number 1, January 2010.
110. Tarek F. Gharib, Mostafa Aref, Mohamed Saber, "Processing Sub-graph Queries on Graph Databases Efficiently", International Journal on Intelligent Computing and Information Sciences (IJICIS) Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, Volume 10, Number 2, January 2010.
111. Ibrahim Moawad, Mohammad Abdeen, Mostafa Aref, "Ontology-based Architecture for an Arabic Semantic Search Engine", The tenth Conference on Language Engineering December 15-16, 2010, Cairo, Egypt.
112. Mostafa Aref, Ibrahim Moawad, Soha Ibrahim "Rich Semantic Graph Generation System Prototype", The tenth Conference on Language Engineering December 15-16, 2010, Cairo, Egypt.
113. Ibrahim Fathy, Mostafa Aref, Omar Enayet, Abdelrahman Al-Ogail, "Intelligent Online Case-based Planning Agent Model for Real-Time Strategy Games", The 10th International Conference on Intelligent Systems Design and Applications (ISDA), November 29-December 1, 2010, Cairo, Egypt.
114. Mohamed Saber, Mostafa Aref, Tarek F. Gharib "An Efficient Filtering Technique for Super-Graph Query Processing" Fifth International Conference on Digital Information Management, July 05-08, Lakehead University, Thunder Bay, Canada, 2010.
115. Ibrahim F. Moawad & Mostafa Aref, "A Semantic Graph Reduction Approach for Abstractive Text Summarization" The ninth Conference on Language Engineering December 6-7, 2009, Cairo, Egypt.
116. Hatem Abdel hameed Darweesh, M. Roshdy, M. Aref, Said Ghoniemy, "A Proposed Robot-Unified-Control-Language (R-UCL) And Its Support Engine", Fourth International Conference on Intelligent Computing and Information Systems (ICICIS 2009) Cairo, Egypt, 19-22, March, 2009.
117. Sally Saad, Mostafa Aref, "Applying Vector Model for Arabic Information Retrieval," Fourth International Conference on Intelligent Computing and Information Systems (ICICIS 2009) Cairo, Egypt, 19-22 , March , 2009.
118. Tarek F. Gharib, Mohammed M. Fouad, and Mostafa M. Aref, "Fuzzy Document Clustering Approach using WordNet Lexical Categories" In the proceeding of International Joint Conference on Computer, Information, and Systems Sciences, and Engineering (CIS2E 2008), USA, December 2008.
119. Tarek F. Gharib, Mohammed M. Fouad, and Mostafa M. Aref, "Web Document Clustering Approach using WordNet Lexical Categories and Fuzzy Clustering" In the proceeding of IEEE International Workshop on Data Mining and Artificial Intelligence (DMAI2008), Khulna, Bangladesh, December 2008.
120. Mostafa Aref, "Object Oriented Approach for Noun Sequence Interpretation" in the Egyptian Computer Science Journal, (ECS Journal), Volume 28, Number 3, September 2006.
121. Mostafa Aref & Zhengbo Zhou, "Evaluation of The Ontology Web Language (OWL) as a Knowledge Representation", the **Egyptian Computer Science Journal, (ECS Journal)**, Volume 28, Number 2, May, 2006.
122. Mostafa Aref & Zhengbo Zhou, "The Ontology Web Language (OWL) For A Multi-Agent Understating System", Proceedings of the International Conference on Integration of Knowledge Intensive Multi-Agent Systems (KIMAS 2005) being held 18 - 21 April 2005, Waltham, Massachusetts, USA.
123. Mostafa Aref, "A Multi-Agent System for Natural Language Understanding", Proceedings of the International Conference on Integration of Knowledge Intensive Multi-Agent Systems, 1-3, Cambridge MA, PP 36-40, 2003
124. Mostafa Aref & Srinivasa Desiraju, "An Object-Oriented Approach for Discourse Analysis," Proceedings of the 15th International Conference on Computer Applications in Industry and Engineering, San Diego, California, PP 7-11, 2003.
125. A. Sharaf, M. Ahmed & M. Aref, "A Use-Case Driven Approach for Developing a Semantic Analyzer," Proceedings of the Third Workshop on Information and Computer Science, Dhahran, Saudi Arabia, PP. 99-108, October 22-23, 2000.
126. Mostafa Aref & A. Sharaf, "An Object-Oriented Approach for Semantic Analysis," Proceedings of the 2000 International Conference on Artificial Intelligence, IC-AI'2000, Las Vegas, Nevada, PP. 1387-1393, June 26-29, 2000.
127. Mostafa Aref, "Object Orientation in Natural Language Processing," Proceedings of the 13th International Conference on IEA/AIE 2000, New Orleans, PP. 591-600, June 19-22, 2000.
128. Mostafa Aref, "Knowledge Acquisition Assistant," Proceedings of the Fifth Saudi Engineering Conference, Makkah Al Mukarramah, Saudi Arabia. PP. 401-406, February 1999
129. R. Abdel-Aal, M. Aref and M. Raashid, "Knowledge-based Operator's Assistant For the KFUPM Ion Accelerator," Proceedings of the Fifth Saudi Engineering Conference, Makkah Al Mukarramah, Saudi Arabia. PP. 407-414, February 1999
130. Mostafa Aref & Mohammed Tayyib "Lana-Match Algorithm: A Parallel Version of The Rete-Match Algorithm," the **International Journal of Parallel Computing**, Vol. 24, No. 5-6, PP. 763-775, July 1998.
131. Mostafa Aref, "A Bilingual Knowledge Representation," Proceedings of the 6th International Conference and Exhibition on Multi-lingual Computing, Cambridge, UK, PP. 5.2.1-5.2.6 April 17-18, 1998.
132. R. Abdel-Aal, M. Aref and M. Raashid, "Operator's Assistant Training Program For the KFUPM Ion Accelerator," Proceedings of the Second Workshop on Information and Computer Science, Dhahran, Saudi Arabia, PP. 1-6, March 3, 1998.
133. Mostafa Aref & K. Elleithy, "HOOVER: Hardware Object-Oriented Verification," Proceeding of the 8th Great Lakes Symposium on VLSI, Lafayette, Louisiana, USA. PP. 351-355, February, 1998.

134. Mostafa Aref & H. Al-Muhtaseb, "Khabeer: An Object-Oriented Arabic Expert System Shell," **the Arabian Journal for Science and Engineering Journal**, Vol. 22, No. 2B, PP. 275-293, October 1997.
135. Mostafa Aref "Object-Oriented Approach For Morphological Analysis," Proceeding of the 15th National Computer Conference, Dhahran, Saudi Arabia, PP. 5-11, November 1997.
136. M. A. Mahmoud, Mostafa Aref & A. Al-hammad, "An Expert System for Evaluation and Selection of Floor Finishing Materials," **Expert System with Applications Journal**, Vol. 10, No. 2, PP. 281-303, March 1996.
137. K. M. Elleithy & Mostafa Aref, "Verification Strategy in PROVER," Proceeding of IEEE Asia Pacific Conf. on Circuit and System 96, Seoul, Korea, PP. 351-355, November 1996.
138. H. Al-Muhtaseb & Mostafa Aref, "Khabeer As A Machine Translation Tool," Proceedings of the First Workshop on Inf. and Computer Science, Dhahran, Saudi Arabia, June 1996
139. Mostafa Aref & H. Al-Muhtaseb, "Khabeer: An Arabic Object-Oriented Production System and Query Language," **Processing Arabic Report**, Vol. 8, PP. 77-106, Nijmegen University, Holland, 1995.
140. Mostafa Aref, M. Almulhem & H. Al-Muhtaseb, "English to Arabic Machine Translation: Critical Review and Suggestions for Developments," Proceedings of the Fourth Saudi Engineering Conference, Jeddah, Saudi Arabia, November 1995.
141. M. A. Mahmoud, A. Al-hammad, S. Assaf & Mostafa Aref, "An Evaluation and Selection Model for Floor Finishing Materials," **Cost Engineering Journal**, Vol. 36, No. 9, Sept. 1994.
142. H. Al-Muhtaseb & Mostafa Aref, "A Query Language For Arabic Expert System Applications," Proceedings of the Ninth International Symposium on Computer and Information Sciences, Antalya, Turkey, November 1994.
143. R. Rabee & Mostafa Aref, "A Knowledge Base System for Comfort Analysis of Internal Environment of Hotels," Proceedings of the Conference on Creating Environments for Tourism, Las Vegas, Nevada, USA, October 1994.
144. K. M. Elleithy & Mostafa Aref, "A Rule-Based Approach for High Speed Adders Design Verification," Proceedings of the Midwest Symposium on Circuit and Systems, Lafayette, Louisiana, August 1994.
145. H. Al-Muhtaseb, Mostafa Aref & M. Almulhem, "Machine Translation from English to Arabic: Objectives, Plans and Steps," Proceedings of The first Symposium on Computer Applications, Bahrain, May 1994.
146. Mostafa Aref & H. Al-Muhtaseb, "KHOOL: Khabeer Object Oriented Language," Proceedings of the 4th International Conference & Exhibition on Multi-lingual Computing, University of Cambridge, London, UK, April 1994.
147. Mostafa Aref & Mohammed Tayyib "Implementation of Lana-Match Algorithm: Performance Evaluation," accepted to be published in the **International Journal of Parallel and Distributed Systems and Networks**. 1994.
148. Mostafa Aref & K. Elleithy, "PROVER: A Production System For Formal Hardware Verification," Proceedings of 5th International Conference on Microelectronics, Dhahran, Saudi Arabia, December 1993.
149. S. Al-Safran & Mostafa Aref, "Semantic Representation for Arabic Sentences," In Arabic, Proceedings of the 2nd International Conference on Arabic Language and the Advanced Information Technology, Casablanca, Morocco, December 1993.
150. K. Elleithy & Mostafa Aref, "A Production Based System For Formal Verification of Digital Signal Processing Architectures," Proceedings of 27th Annual Asilomar Conference on Signal, Systems and Computers, California, November, 1993.
151. Mostafa Aref & H. Al-Muhtaseb, "KHBEER: An Arabic Expert System Shell," Proceedings of 18th International Conference for Statistics & Computer Science, Cairo, Egypt, April 1993.
152. A. Al-shehri, C. Belhaj, Mostafa Aref & M. Guizani, "An Expert System for Load Flow Analysis & Planning," Proceedings of the 4th Symposium on Expert Systems Application to Power Systems, La Trobe University, Melbourne, Australia, January 1993.
153. H. Al-Muhtaseb & Mostafa Aref, "Arabic Technical Terms In Arabic Formal Languages," Proceedings of the 3rd International Conference and Exhibition on Multi-lingual Computing, University of Durham, UK, December 1992.
154. Alaaeldin Amin & Mostafa Aref, "An Intelligent EPROM Silicon Compiler," Proceedings of IEEE Pacific RIM Conference on Communications, Computer and Signal Processing, Victoria, B.C., Canada, May 1991.
155. A. Al-Shahri, M. Guizani, C. Belhaj & Mostafa Aref, "AI Technique For Load Flow Planning and Contingency Analysis," Proceedings of Melecon 91, Mediterranean Electrotechnical Conference, Ljubljana, Yugoslavia, May 1991.
156. Mostafa M. Aref, "Heuristic Approach for Program Partitioning and Allocation: Implementation and Results," Proceedings of Melecon 91, Mediterranean Electrotechnical Conference, Ljubljana, Yugoslavia, May 1991.
157. Mostafa M. Aref "ESPA: An Expert System for Program Partitioning for Data Flow Architectures," Proc. of 12th National Computer Conf., Riyadh, Saudi Arabia, October 1990.
158. J. Davis, J. McDowell, M. Abdallah, Mostafa Aref, "A Comparison of Compiled reasoning systems and Model Based Systems and their Applicability to the Diagnostic of Avionics," Proc. of the National Aerospace Electronic Conf. (NAECON), Dayton, Ohio, May 1990.
159. Mostafa Aref & H. Standley, "A Static Heuristic-Based Approach for Task Partitioning and Allocation in Data Flow Architectures," Proceedings of 30th Midwest Symposium on Circuit and System, Syracuse, NY, August 1987.
160. M. Jamali, Mostafa Aref & G. Jullien, "Algorithm Partitioning and Allocation for a DFSP," The Ohio Journal of Science, Volume 86, No. 2, PP. 35. 1986.
161. Mostafa M. Aref, "Production System For Task Partitioning And Allocation In DFSP", Presented in SIGMA XI Seventh Annual Graduate Research Sym., Toledo, Ohio. May 1986.
162. Mostafa Aref & G. MaCalla, "Experiments in the Automatic Discovery of Declarative and Procedural Data Structure Concepts", Proc. CSCSI/SCEIO Conference May, London, Ontario, Canada. 1984.



