

Curriculum Vitae

Ayman Elsayed Khedr

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Google Scholar h-index: 25

Google Scholar i10-index: 61

Google Scholar Citations: <https://scholar.google.com/citations?user=J6z0kCkAAAAJ&hl=en>

Scopus Score h-index: 14

Scopus Score Citations: <https://www.scopus.com/authid/detail.uri?authorId=36701695500>

LANGUAGES

- **Arabic:** Mother Tongue
- **English:** Fluent (Reading, Writing, Speaking)
- **German:** Fair

EDUCATION

- PhD. Degree in Information Systems and Computer Science, Leiden University, LIACS, Leiden, the Netherlands, (2005- 2008).
Thesis Title: Adoption of New Technologies in a Highly Uncertain Environment: The Case of Knowledge Discovery in Databases for Customer Relationship Management in Egyptian public banks.
- Master of Philosophy (MPhil.) in Information Systems and Technology, Maastricht University (IKAT) and Maastricht School of Management (M_SM), Maastricht, The Netherlands, (2001-2003).
Thesis Title: Knowledge Discovery in Databases for Customer Relationship Management in Egyptian Banks.
- Master's Degree (M.Sc.), in Commerce and Business Administration (Major), Management Information Systems (Minor), Helwan University, Faculty of Commerce and Business, (1993-1997).

Thesis Title: Communication Networks and Their Effect on Press Information Systems Development: Empirical Study on Press Institutions in Egypt.

- Bachelor's degree, in Management Sciences with general grade "Very Good" with second Degree of honor specialized in Computer and Information Systems, Sadat Academy for Management Science- Faculty of Management, (1989-1992).

CURRENT EMPLOYMENTS

- Professor of Information Systems and Data Science, Information Systems Department, Faculty of Computing and Information Technology, University of Jeddah, Jeddah, KSA, (March 2019 - present)
- Professor of Information Systems and Data Science, Information Systems Department, Faculty of Computers and Artificial Intelligence, Helwan University, Egypt, (March 2019 - present)
- Vice Dean of Post Graduates and Research Affairs, Faculty of Computers and Information Technology, Future University in Egypt, Cairo, Egypt, (2016 – Sep. 2019).
- Head of Information Systems Department, Faculty of Computers and Information Technology, Future University in Egypt, Cairo, Egypt, (2014 – Sep. 2019).
- Associate Editor in Chief and the Executive Editor for **Elsevier** and Future University's joint International Journal, "Future Computing and Informatics Journal (FCIJ)", Elsevier, (2014 – Sep. 2019).
- Consultant of Information Technology in the College of Leaders and Command, College of Post-Graduation Studies, College of Military Science, and College of Training, Police Academy, (2014 – Sep. 2019).
- Part-time Professor in Business Information Systems program (BIS), Faculty of Commerce and Business Administration, Helwan University, Cairo, Egypt, (2014 – Sep. 2019).

WORK HISTORY AND PRIOR EXPERIENCE

- **HELWAN UNIVERSITY (since December 1997 until the present day)**
- Full Professor of Information Systems and Data Science, Information Systems Department, Faculty of Computers and Artificial Intelligence, Helwan University, (March 2019 - present).
- Associate Professor, Information Systems Department, Faculty of Computers and Artificial Intelligence, Helwan University, (2014 – 2019).
- Assistant Professor, Information Systems Department, Faculty of Computers and Artificial Intelligence, Helwan University, (2008 - 2014).
- Assistant Lecturer, Information Systems Department, Faculty of Computers and Artificial Intelligence, Helwan University, (1997 - 2008).

- Technical Manager of the International Center of Excellence for Education Management (ICEEM), Helwan University, (2010 - 2011).
- Head Module "Management of Technologies in Education", (LMS, e-learning, e-course, and blended learning) Master Program in International Education Management, A German - Egyptian Cooperation for German and Egyptian young professionals, (2010 - 2011).
- Assistant Manager of Quality Assurance Unit in Faculty of Computers and Artificial Intelligence, Helwan University, (2009 - 2011).
- Manager of E-Learning Center, Helwan University, (2009 - 2011).
- Membership of higher committee for e-learning and education technologies development, higher education ministry, (2009 - 2011).
- **OTHER INSTITUTES AND UNIVERSITIES**
- Acting Vice Dean of Community services and environmental development, Faculty of Computers and Information Technology, Future University in Egypt, Cairo, Egypt, (2014 - 2016).
- Manager of Quality Assurance Unit in Faculty of Computers and Information Technology, Future University in Egypt, (2013 - 2015).
- General Manager of Human Development Center, Modern Academy, Cairo, Egypt, (2012 - 2013).
- General Coordinator of Postgraduate and Researches Department for CS and MIS Departments, Modern Academy, Cairo, Egypt, (2011 - 2013).
- Head of E-Learning and Management Technology Departments, Modern Academy, Cairo, Egypt, (2011 - 2012).
- Head of Management Information Systems Department, English Division, Modern Academy, Cairo, Egypt, (2011- 2012).
- Manager of Modern Technology Center, Modern Academy, (2011- 2013).
- Manager of Quality Assurance Unit in Management Information Systems Department, Modern Academy, (2011 - 2012).

ACADEMIC AND MANAGEMENT ACTIVITIES

- A member in the Founder Team of the Center for Quality and Continuous Development, Faculty of Military Sciences, Armed Forces, 2019.
- A Member in the Quality Accreditation Team, Faculty of Military Sciences, Armed Forces, 2019.
- A Member if the Quality Accreditation Team, Faculty of Computers and Information Technology, Future University in Egypt, 2019 - Current. Responsible for three

Standards out of Eleven (Scientific Research, Community Services, and Students Affairs).

- The Head of Quality Accreditation Center, Faculty of Computers and Information Technology, Future University in Egypt, 2013 – 2016.
- Member in the preparation and development of the joint MSc. Program between Ludwigsburg University of Education in Germany and Helwan University in Egypt (20/10/2011), a member in establishing the program with the executive programs headed by the chief board of Helwan University.
- Chairman of the Establishment Committee for "The International Center of Excellence for Education Management (ICEEM)", Helwan University, Egypt. The center focuses on e-learning and distance education as a start for the joint master program between the University of Ludwigsburg for German Education and Helwan University.
- Reviewer for the Academic References, Police Academy, Egypt.
- Member in the Quality Team, Police Academy, Egypt.
- Member of the Committee for E-learning development at the National Center for e-learning, the Supreme Council of Universities, Egypt.
- Member of the Committee for activating the electronic courses at the faculties of Helwan University during my tenure as the director of the E-Learning Center, Helwan University from 2009-2011, Egypt.
- Member in the Committee of the Technological Environment, Helwan University from 2009-2011, Egypt.
- Member in the committee of the Internet development, establishing computer labs, and training halls in the Faculty of Commerce and Business Administration for the joint MSc. Program between Ludwigsburg University of Education in Germany and Helwan University in Egypt.
- **Teaching and Training in the Following Institutes:**
 - PH Ludwigsburg University of Education, Germany (ToT and workshop).
 - Project coaching Module, Maastricht, M&M, The Netherland.
 - Arab Academy for Science, Technology and Maritime transport, Egypt.
 - Canadian International College (CIC), Egypt.
 - Misr University for Science and Technology, 6th. Of October, Egypt.
 - Advanced Academy El haram and Katameya, Egypt.
 - Thebes Academy, Egypt.
 - El Madina Academy, Egypt.
 - Police Academy, Egypt.
 - Faculty of Military Sciences, Egypt.

- Supervising ICDL courses, and the laboratories of the Faculty of Computers and Information, Helwan University. From 2008 to Jan 2010. The courses are offered to the students of Helwan University and the students of other universities in Egypt in addition to the surrounding environments members.

SCIENTIFIC ACTIVITIES

• CONFERENCES PARTICIPATION

- Conference Co-Chair of the 3rd. International Conference for Computing and Informatics Ubiquitous Computing and Engineering, (ICCI, 2018), (3-4 July, 2018), Future University in Egypt and Helwan University.
- Member in the Organizing Committee of the 2nd. International Conference on Knowledge Engineering and Big Data Analytics (KE&BDA) (9-11 December, 2017), Future University in Egypt and Ain Shams University.
- Member in the Organizing Committee for the International Conference in Information Technology (2 August 2017) in the Faculty of Computers and Information, Helwan University, Cairo, Egypt. The conference was held with the cooperation of the Faculty of Computing and Information Technology, Arab Academy for Science, and Technology and Maritime Transport.
- The 3rd. International Conference for Education Quality Assurance, Education for the Present and the Future, (17-18 April, 2016).
- Executive Coordinator for the first International Conference in Faculty of Computers and Information, Helwan University, participating with the cooperation of the Arab Academy for Science, Technology and Maritime Transport, "The First International Conference in Computing and Informatics (ICCI' 2012)", 11-12 December, 2012.

• WORKSHOPS PARTICIPATION

- Member in the Organizing Committee of "Workshop on Digital Business Transformation", Future University in Egypt, Egypt, (3 July, 2019).
- Member in the Organizing Committee of "Artificial Intelligence a New Era for Smart Hospitals and IoT Business Insights Workshop", Future University in Egypt, Egypt, (17 July, 2017).
- "Intellectual Property and Authorship Workshop", organized by Future University in Egypt, Egypt and MERETI, University of Maryland, USA, (20 December, 2017).
- "Application of Accreditation Standards of Higher Education, Colleges and Institutes (Third Edition – July 2015)", National Authority for Quality Assurance and Accreditation of Education, (18-20 September, 2017).
- "Facing extremist thought", Police Academy, Egypt, 29 March, 2017

- "Standards for Accreditation of Higher Education Faculties and Institutes", (National Authority for Quality Assurance and Accreditation of Education), (3rd Eds., July 2015), (16 April, 2016).
- "Modern Approach in Publishing Ethics", National Authority for Quality Assurance and Accreditation of Education), (29 March, 2016).
- "Future Vision for the development of Security Performance and Community Communication", Police Academy, Egypt, 3 January, 2016
- "E - Terrorism Risks and Security", Police Academy, Egypt, 27 December, 2015
- Member of the Committee for the preparation, organization and supervision and Chairman of Management Learning Systems (MLS) Module, the workshop to activate various types of e-learning within the activities of the joint master program between Ludwigsburg University of Education in Germany and Helwan University in Egypt, 2010.
- "Quality Standards in Teaching", (The Faculty and Leadership Development Center, Helwan University), Egypt, (3-4 June, 2009).
- "International Publishing of Research", (The Faculty and Leadership Development Center, Helwan University), (24-25 June, 2009).
- "Conference Organization", (The Faculty and Leadership Development Center, Helwan University), Egypt, (27-28 May, 2009).
- **IT CONSULTANCY**
- IT Consultant, Faculty of Training and Development, Police Academy, Egypt, (2013- 2019).
- IT Consultant, Faculty of Post-Graduate Studies, Police Academy, Egypt, (2013- 2019).
- IT Consultant and Quality Assurance, El-Gazeera Academy, Egypt. (2013- 2019).
- **JOURNAL REVIEWER**
- Management Decision, Emerald Publishing.
- Journal of Computer Science, Science Alert Publications.
- Journal of Educational Computing Research, SAGE Journals.
- The International Journal for Sensor Networking and Data Communication, OMICS International.
- The International Journal in Computing Software.
- The 2011 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE'11).

- **SCIENTIFIC MISSIONS**

- A scientific mission at the Ludwigsburg University of Education in Germany to start the activities of the joint master program with Helwan University in the period 27-31 October 2010. The mission included the implementation and lecturing two public lectures and specialized in the areas of management education technology.
- A scientific mission at Leiden University, the Netherland, to have Master of Philosophy (MPhil.) in Information Systems and Technology, Maastricht University (IKAT) and Maastricht School of Management (M_sM), Maastricht, The Netherlands, (2001-2003).
- A scientific mission at Leiden University, the Netherland, to have PhD. degree in Information Systems and Technology, Maastricht University (IKAT) and Maastricht School of Management (M_sM), Maastricht, The Netherlands, (2005-2008).
- Head Module of "Management of Technologies in Education" (LMS, e-learning, e- course, and blended learning) in the Egyptian MSc. Program in International Education Management, A German - Egyptian Cooperation between the Ludwigsburg University of Education in Germany and Helwan University for the German and Egyptian young professionals, 2010.

- **INTERNATIONAL COOPERATION AGREEMENTS**

- The joint master program with Helwan University, Egypt and Ludwigsburg University, Germany.
- Educational and Technical Cooperation between Future University and high quality international organizations including EMC² and IBM.
- IC3 Certificate (Microsoft) for Future University students with the cooperation of CertiPort organization.

- **RESEARCH PROJECTS**

Participation in various roles and activities for three research and applied projects.

- **Research project # 1**

Title: An Arabic Ontology Engine for Domain Concepts Construction and Semantic Retrieval

Submitted to: ITIDA [Technology Incubation Program (TIP)]

ID number: ID: PDP2010.R7.23

Date: February 2010

My role: Principal Investigator (PI)

- **Research project # 2**

Title: Document Summarization based on Ontology Engineering (D.S.O.E)

Submitted to: Science and Technology Developing Fund (STDF)

ID number: ID: 2769

Date: April 2010

My role: Team Leader for Development Group

- **Research project # 3**

Title: Online Learning based on a whiteboard protocol

Submitted to: ITIDA [Technology Incubation Program (TIP)]

ID number: ID: PDP2010.R8.17

Date: May 2010

My role: Development Team Leader

TRAINING COURSES

- Students Assessment and Exams Systems (The Faculty and Leadership Development Center, Helwan University), Egypt, (5-6 June, 2018).
- Effective Communication Skills (The Faculty and Leadership Development Center, Helwan University), Egypt, (3-4 June, 2018).
- Research Team Management (The Faculty and Leadership Development Center, Helwan University), Egypt, (15-16 May, 2018).
- Use of Technology in Teaching, (The Faculty and Leadership Development Center, Helwan University), Egypt, (6-7 May, 2018).
- Aspects of Laws, (The Faculty and Leadership Development Center, Helwan University), Egypt, (29-30 April, 2018).
- Strategic Planning, (The Faculty and Leadership Development Center, Helwan University), Egypt, (22-23 April, 2018).
- Education Programs and Course Specifications and Evaluation of Learning Outcomes for H. E. Institutes, (National Authority for Quality Assurance and Accreditation of Education), Egypt, (5-7 September, 2016).
- Strategic Planning, (The Faculty and Leadership Development Center, Helwan University), Egypt, (13-15 August, 2013).
- Competitive Research Projects, (The Faculty and Leadership Development Center, Helwan University), Egypt, (3-5 August, 2013).
- Financial and Legal Aspects of University assignments, (The Faculty and Leadership Development Center, Helwan University), Egypt, (30-31 July, 2013).
- University Administration, (The Faculty and Leadership Development Center, Helwan University), Egypt, (27-29 July, 2013).

- Scientific Publication, (The Faculty and Leadership Development Center, Helwan University), Egypt (24-25 July, 2013).
- Ethics in Scientific Research, (The Faculty and Leadership Development Center, Helwan University), Egypt (20-22 July, 2013).
- Meetings and Managing Time, (The Faculty and Leadership Development Center, Cairo University), Egypt (6-7 February, 2013).
- Communication skills in different types of education, (The Faculty and Leadership Development Center, Cairo University), Egypt (30-31 January, 2013).
- Use of Technology in Teaching, (The Faculty and Leadership Development Center, Cairo University), Egypt (27-28 January, 2013).
- Credit Hours Systems, (The Faculty and Leadership Development Center, Cairo University), Egypt (20-22 January, 2013).

- **FIELDS OF EXPERIENCE**

I have a long experience in supporting the following institutions with computer skills, ICT skills, and management training courses in different subjects in Egypt, The Netherlands, Jordan, and other Arabic countries (1993- 2012).

- **FINANCIAL SECTOR**

- Misr International Bank (Egypt and Jordan)
- Misr Bank (El Aalam Branch)
- Cairo Far East Bank Egyptian Export Promotion Bank (Oruba Branch)
- Peace Co. for Securities Exchange.
- United Group for Securities Exchange.
- Guarantee of Credit Risk Co.

- **EDUCATIONAL SECTOR**

- The Higher Council for Universities, Egypt (Projects No. 9176, 10076)
- Faculty of Commerce and Business Administration, Helwan University, Egypt
- Center for Foreign Trade Research and Studies, Helwan University, Egypt
- Misr University for Science and Technology (MUST), 6th. of October, Egypt
- Higher Technological Institute – 10th. of Ramadan City, Egypt
- National Research Center, ICT skills, Egypt
- E-Learning project, A Joint Project between El Zaytoonah University of Jordan, Jordan; and Leiden University, The Netherlands
- E-Learning project, A Joint Project between Yarmouk University; Jordan; and Leiden University; The Netherlands
- E-Learning project, A Joint Project between University of Petra; Jordan; and Leiden University; The Netherlands

- **INTERNATIONAL TRADE SECTOR**

- The Egyptian Co. for Maritime Transport (Martrans).

- The International Co. for Export and Import
- Egyptian Gulf Center for Export and Import
- Arab Co. for Import and Export (Egypt and Jordan)
- Egypt Co. for Import and Export
- The Egyptian Foreign Trade Holding Co.
- **MINISTRIES**
 - Planning Ministry
 - Agriculture Ministry
 - Transportation Ministry

TEACHING TOPICS

- **UNDER GRADUATION COURSES**
 - Introduction to Computer
 - Introduction to Informatics and Information Systems
 - Management Information System (MIS)
 - Databases I & II.
 - System Analysis and Design I & II.
 - Business Intelligence (BI) and Decision Support Systems (DSS)
 - Knowledge Discovery in Databases (KDD) and Data Mining (DM)
 - ERP and Project Management (PM)
 - Internet Programming and Applications
 - Knowledge Base Systems
 - Software Quality Assurance
 - Introduction to E-Marketing, E-Commerce, and E- Business
 - E-Learning
- **POST- GRADUATION COURSES**
 - Adoption of new technologies
 - Knowledge Discovery in Databases (KDD) and Data Mining (DM)
 - Business Intelligence (BI) and Decision Support Systems (DSS)
 - Research Skills & Report Writing
 - Advanced Database
 - Knowledge Based Systems
 - Electronic Crime and Electronic Terrorism
 - Software Quality Assurance
 - Advanced Information Systems

GRADUATION PROJECTS

- I have supervised graduation projects in the Faculty of Computers and Information, Helwan University, Faculty of Commerce and Business Administration, Helwan University, Egypt, and the Faculty of Computers and Information Technology, Future University in Egypt (FUE), Egypt.

- Projects ideas included University management systems websites, Intelligent E-Commerce websites, Intelligent E- Learning Systems, Recommendation Systems, and Society services support systems.
- Projects ideas used novel perspectives in solving the identified problems, it also proposed competitive approaches with recent researches in the same field with providing a successful evaluation for the proposed systems.

PUBLICATIONS

- **BOOKS**

1. Electronic Terrorism – Concepts and Technology, College of Post-Graduation Studies, and College of Training, General Secretariat of the Armed Forces, 2018.
2. Adoption of new technologies in a highly uncertain environment: The case of Knowledge Discovery in Databases for Customer Relationship Management (CRM) in Egyptian public banks, Leiden University, 2014.
3. Introduction to Computers and Information Systems, Ain shams Publisher, English and Arabic version, 2013.
4. System Analysis & Design, English & Arabic version, Abo Elmaged Publisher, 2012.
5. Decision Support Systems, Arabic version, Elmaadi Publisher, 2011.
6. Database Management Systems, Arabic version, Elmaadi Publisher, 2010.
7. Information storage and Reports writing, Arabic version, Elmaadi Publisher, 2009.
8. Adaption of new technologies, English version, EU, 2008.

- **BOOK CHAPTERS**

1. Mohammed A. Osman, Ashraf Darwish, **Ayman E. Khedr**, Atef Z. Ghalwash, and Aboul Ella Hassanien, "Enhanced Breast Cancer Diagnosis System Using Fuzzy Clustering Means Approach in Digital Mammography", Handbook of Research on Machine Learning Innovations and Trends, 2017, pp. 925-941.

- **RESEARCH PAPERS (Selected ones out of 150 Papers)**

1. YH, Amira M. Idrees and **AE Khedr**. "Credibility aspects' perceptions of social networks, a survey", Social Network Analysis and Mining. ", Vol. 12, no. 98 (2022), pp. 1-14, 2022.
2. **AE khedr**, AA Almazroi and AM Idrees. "Intelligent Framework for Enhancing the Quality of Online Exams based on Students' Personalization. ", International Journal of Advanced Computer Science and Applications International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 13, no. 7, pp. 605-614, 2022.

3. NM Swelam, **AE Khedr** and H Auda, "Breast Cancer Diagnosis and Prognosis Using Stacking Ensemble Technique. ", Journal of Theoretical and Applied Information Technology, Vol. 100, no. 14, pp. 5387-5400, 2022.
4. S Naiem, AM Idrees, M Marie and **AE Khedr**, "DDOS Attacks Defense Approaches and Mechanism in Cloud Environment. ", Journal of Theoretical and Applied Information Technology, Vol. 100, no. 13, pp. 4632-4642, 2022.
5. NY Hegazy, MH Khafagy and **AE Khedr**, "Big Scholarly Data Techniques, Issues, and Challenges Survey. ", Journal of Theoretical and Applied Information Technology, Vol. 100, no. 5, pp. 1236-1246, 2022.
6. AM Idrees, S Naiem, M Marie and **AE Khedr**, "Distributed Denial of Services Attacks and Their Prevention in Cloud Services. ", Journal of Theoretical and Applied Information Technology, Vol. 100, no. 4, pp. 1170-1181, 2022.
7. Shrouk H. Hessen, Hatem M. Abdul-Kader, **Ayman E. Khedr**, and Rashed K. Salem. "Developing Multiagent E-Learning System-Based Machine Learning and Feature Selection Techniques." Computational Intelligence and Neuroscience, Vol. 2022, 2022.
8. Attia, Mohamed, Manal A. Abdel-Fattah, and **Khedr, E. Ayman**. "A proposed multi criteria indexing and ranking model for documents and web pages on large scale data." Journal of King Saud University-Computer and Information Sciences, 2021.
9. **Ayman E. Khedr**, Amira M. Idrees, and Rashed Salem. "Enhancing the e-learning system based on a novel tasks' classification load-balancing algorithm."PeerJ. Computer Science, Vol. 7, (2021): e669.
10. Almazroi, Abdulwahab Ali, **Ayman E. Khedr**, and Amira M. Idrees. "A proposed customer relationship framework based on information retrieval for effective Firms' competitiveness." Expert Systems with Applications, Vol. 176, 2021.
11. Ghazi, Ahmed, Samir Ismail Elsayed, and **Khedr, Ayman**. "A Proposed Model for Predicting Employee Turnover of Information Technology Specialists Using Data Mining Techniques." International journal of electrical and computer engineering systems, Vol. 12, no. 2, 2021.
12. Bayomy, Noha Ahmed, **Khedr, Ayman Elsayed**, and Laila A. Abd-Elmegid. "Adaptive model to support business process reengineering." PeerJ Computer Science, Vol. 7, (2021): e505.
13. Mohamed, Mohamed Attia, Manal A. Abdel-Fattah, and **Ayman E. Khedr**. "Challenges and recommendations in big data indexing strategies." International Journal of e-Collaboration (IJeC), Vol. 17, no. 2, 2021
14. Afify, Esraa A., Ahmed Sharaf Eldin, and **Ayman E. Khedr**. "Facebook Profile Credibility Detection using Machine and Deep Learning Techniques based on

- User's Sentiment Response on Status Message." International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 11, no. 12, 2020.
15. Mostafa, Aya M., Amira M. Idrees, **Ayman E. Khedr**, and Yehia M. Helmy. "A proposed architectural framework for generating personalized users' query response." Journal of Southwest Jiaotong University, Vol. 55, no. 5, 2020.
 16. Abogabal, Fatma, Shimaa M. Ouf, Amira M. Idrees, and **Ayman E. Khedr**. "An Architectural Framework for Generating Food Safety Key Performance Indicators." Journal of Southwest Jiaotong University, Vol. 55, no. 5, 2020.
 17. EL masry, Hesham M., **Ayman E. Khedr**, and Hatem M. Abdul-Kader. "Challenges and opportunities for intrusion detection system in cloud computing environment." Journal of Theoretical and Applied Information Technology, Vol. 98, no. 20, 2020.
 18. Osama, Eman, Mohamed Abdelsalam, and **Ayman E. Khedr**. "The Effect of Requirements Quality and Requirements Volatility on the Success of Information Systems Projects." International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 11, no 9, 2020).
 19. Idrees, Amira Mohammed Ibrahim, Dalia Hassan Ahmed Hassouna, **Khedr, Ayman Elsayed**, and Ahmed I. Elseddawy. "Intelligent Personalized System for Enhancing the Quality of Learning." Journal of Theoretical and Applied Information Technology, Vol. 98, no 13, pp. 2199 – 2213, 2020.
 20. **Ayman E. Khedr**, Amira M. Idrees, and Essam Shaaban. "Automated Ham-Spam Lexicon Generation Based on Semantic Relations Extraction." International Journal of e-Collaboration (IJeC), Vol. 16, no. 2, pp. 45-64, 2020.
 21. Helmy, Yehia, Osama Emam, **Ayman E. Khedr**, and Mahmoud Bahloul. "A Survey on Effect of KPIs in Higher Education based on Text Mining Techniques." International Journal of Scientific and Engineering Research, Vol. 11, no. 3, 2020.
 22. Bayomy, Noha Ahmed, **Ayman E. Khedr**, Laila A. Abd-Elmegid, and Amira M. Idrees. "A Literature Review for Contributing Mining Approaches for Business Process Reengineering." Future Computing and Informatics Journal, Vol. 5, no. 2, 2020.
 23. **Ayman E. Khedr**, Amira M. Idrees, and Fahad Kamal Alsheref. "A proposed framework to explore semantic relations for learning process management." International Journal of e-Collaboration (IJeC), Vol. 15, no. 4, Pp. 46-70, 2019.
 24. Helmy, Yehia, **Ayman Khedr**, Sherif Koleif, and Eman Mohammed Haggag. "Adaptive Approach for Intelligent Web to Enhance Business Intelligence Applications." النشرة المعلوماتية في الحاسبات والمعلومات, Vol.1, no. 1, Pp. 20-28, 2019.

25. Afify, Esraa, Ahmed Sharaf Eldin, **Ayman Khedr**, and Fahad Kamal Alsheref. "User-generated content (UGC) credibility on social media using sentiment classification." *النشرة المعلوماتية في الحاسبات والمعلومات*, Vol.1, no. 1, Pp. 1-19, 2019.
26. Emam, Osama, Mohamed Abdelsalam, **Ayman Khedr**, and Yehia Helmy. "A General Approach Students' Attitude towards to Virtual Reality Technology in Distance Education Environment." *Future Computing and Informatics Journal*, Vol. 4, no. 1, Pp. 2, 2019.
27. **Ayman E. Khedr**, Ahmed A Ahmed, and Sherif Kholeif. "Adaptive Concept Map Approach for Software Requirements Validation." *Future Computing and Informatics Journal*, Vol. 4, no. 1, 2019.
28. Kholeif, Sherif, **Khedr, Ayman**, and Shaker, Mira. "A proposed framework for reducing electricity consumption in smart homes using big data analytics." *Journal of Computer Science*, Vol. 15 (4), pp. 537-549, 2019.
29. Yehia Helmy, **Ayman Khedr**, Shrief Kolief, and Eman Haggag, "An Enhanced Business Intelligence Approach for Increasing Customer Satisfaction Using Mining Techniques", *International Journal of Computer Science and Information Security (IJCSIS)*, Vol. 5, Issue 4, pp 159-176, 2019.
30. Ahmed A. Ahmed, **Ayman E. Khedr**, and Sherif A. Kholeif, "A Conceptual Framework for Software Requirements Validation", *Journal of Applied Science*, Vol. 5, Issue 4, pp 45-62, 2019.
31. Mira Tamer Shaker, **Ayman E. Khedr** and Sherif A. Kholeif, "A Proposed Framework for Reducing Electricity Consumption in Smart Homes using Big Data Analytics", *Journal of Computer Science*, Vol.15, Issue 4, pp 537.549, 2019.
32. Mostafa Sayed, Rashed Salem, and **Ayman Khedr**, "A Survey of Arabic Text Classification Approaches", *International Journal of Computer Applications in Technology*, Inderscience Publishers, Vol. 95, Issue 3, pp 236-251, 2019.
33. Hesham E. Elmasry, **Ayman E. Khedr**, and Mona M. Nasr, "An adaptive technique for cost reduction in cloud data centre environment", *the international journal of Grid and Utility Computing*, Vol. 10, Issue 5, pp 448-464, 2019.
34. Doaa Mohamed Hasan, Ahmed Sharaf Eldin, **Ayman Elsayed Khedr**, Hanan Fahmy, "InSilico Methodologies for Cancer Multidrug Optimization", *International Journal of Computers & Technology*, Vol. 17, Issue 2, pp 7186-7205, 2018.
35. M. Reda Ali, Y. Helmy, **A. Khedr**, and A. Abdo, "Intelligent Decision Framework to Explore and Control Infection of Hepatitis C Virus", *The International Conference on Advanced Machine Learning Technologies and Applications (AMTLTA2018)*, Vol. 2018, pp 264-274, 2018.
36. Eman M. Haggag, Yehia M. Helmy, **Ayman E. Khedr**, and Shrief M. kholief, "Adaptive Approach for Intelligent Web to Enhance Business Intelligence

- Applications", Accepted in Informatics Bulletin, Faculty of Computers and Information, Helwan University, 2018.
37. Esraa A. Afify, Ahmed Sharaf Eldin, **Ayman E. Khedr**, and Fahad K. Alsheref, "User Generated Content (UGC) Credibility on Social Media Using Sentiment Classification", Accepted in Informatics Bulletin, Faculty of Computers and Information, Helwan University, 2018.
 38. Mohamed Abd Elsalam, **Ayman E. khedr**, Osama Emam, and Yehia Helmy, "A General Approach Students' Attitude Towards to Virtual Reality Technology in Distance Education Environment", Accepted in Informatics Bulletin, Faculty of Computers and Information, Helwan University, 2018.
 39. Mostafa Sayed, **Ayman Khedr**, Rashed Salem, and Hatem Abd Elkader, "Classification of Canonical Arabic Text Using Naïve Bayesian and Machine Learning Techniques", Accepted in Informatics Bulletin, Faculty of Computers and Information, Helwan University, 2018.
 40. Islam Talaat, **Ayman E. Khedr**, and Ahmed I. Elseddawy, "Proposed Laboratory Quality Management Framework Based on Data Mining Techniques", the 3rd. International Conference for Computing and Informatics Ubiquitous Computing and Engineering (ICCI, 2018), Future University in Egypt, July 2018.
 41. Nourhan M. Swelam, **Ayman E. Khedr**, and Hend G. Auda, "A Proposed Framework for Diseases Diagnosis and Prognosis in Data Science", the 3rd. International Conference for Computing and Informatics Ubiquitous Computing and Engineering (ICCI, 2018), Future University in Egypt, July 2018.
 42. Ahmed A. Ahmed, **Ayman E. Khedr**, and Sherif A. Kholeif, "Adaptive Concept Map Approach for Software Requirements Validation", the 3rd. International Conference for Computing and Informatics Ubiquitous Computing and Engineering (ICCI, 2018), Future University in Egypt, July 2018.
 43. **Ayman E. Khedr**, Amira M. Idrees, and Rashed Salem, "Enhancing E-Learning System for Optimizing the Students' Satisfaction Based on a Novel Tasks' Classification Method", Submitted in Knowledge Based Systems, Elsevier, Vol. 2018.
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109. Yehia M. Helmy, **Ayman E. Khedr**, and Mohamed A. Ahmed, "Integrated Framework for Applying Business Intelligence to Enhance Ontology Learning Style", the 1st. International Conference of Computing and Informatics (ICCI'2012), Faculty of Computers and Information, Helwan University, Cairo, Egypt, 11-13 December 2012.
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Intelligence (AI), Cambridge, UK, Applications and Innovations in Intelligent Systems XIV. Springer, London, pp. 223-227, 2007.

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THESIS SUPERVISION

Master theses and Ph.D. dissertations under my supervision in different fields, participating with other Professors in the Faculty of Computers and Information - Helwan University, Faculty of Computers and Information - Ain Shams University, Faculty of Computers and Information - Menoufia University, Arab Academy for Science, Technology and Maritime Transport - Business Information Systems department (BIS), Faculty of Commerce and Business Administration- Helwan University, and Faculty of Science - Helwan University.

- **PH.D. DISSERTATION (*Selected ones out of 20 Dissertations*)**

- **CURRENT SUPERVISION**

1. "An adaptive framework for enhancing security in cloud environment", Faculty of Computers and Artificial Intelligence, Helwan University, (Information Systems, Security, and Cloud Computing, 2019).
2. "A New Smart Ranking System Based on Big Scholarly Data Analytics", Faculty of Computers and Information, Fayoum University, (Information Systems, 2019).
3. "Adaptive Secure Intrusion Detection Framework for Big Data in Cloud Environment", Faculty of Computers and Information, Menoufia University, (Information Systems and Cloud Computing fields, 2018).
4. "Multi-Agent Load Balance Framework in Cloud Environment", Faculty of Computers and Information, Menoufia University, (Information Systems and Cloud Computing fields, 2018).

5. "Discovery Optimal Combination of Interventions for Cancer Cell Lines", Faculty of Computers and Information, Helwan University, (Information Systems and Bioinformatics fields, 2017).

- **GRANTED PH.D.**

1. "Adaptive Framework for Enhancing Arabic Text Classification", Faculty of Computers and Information, Menoufia University, (Information Systems and Cloud Computing fields, 2022).
2. "A Strategy for Building Learned Index to Enhance Retrieving of Big Data", Faculty of Computers and Artificial Intelligence, Helwan University, (Information Systems, 2022).
3. "A Model for Measuring User-Generated Content (UGC) Credibility on Social Media", Faculty of Computers and Artificial Intelligence, Helwan University, (Information Systems, 2021).
4. "Adaptive Approach for Intelligent Web to Enhance Business Intelligence Applications", Faculty of Computers and Information, Helwan University, (Information Systems, 2019).
5. "A Proposed Framework to Support the Intelligent Decision Systems based on Knowledge based Systems", Faculty of Computers and Information, Helwan University, (Information Systems and DSS fields, 2018).
6. "Proposed Framework to Construct Virtual Reality E- Learning Environment Based on Personalized Learning", Faculty of Computers and Information, Helwan University, (Information Systems and E-Learning fields, 2018).
7. "Proposed Framework for Enterprise Performance Measurement by merging Balanced Scorecard Methodology with Business Intelligence procedures", Faculty of Computers and Information, Helwan University, (Information Systems field, 2018).
8. "Strategic Performance Measurement: Merging Balanced Scorecards and Business Intelligence Techniques", Faculty of Computers and Information, Helwan University, (Information Systems and Computer Science fields, 2016).
9. "Cross-Language Semantic Web Service Discovery to Improve the Selection Mechanism by Using Data Mining Techniques", Faculty of Computers and Information, Helwan University, (Information Systems field, 2015).
10. "Proposed Integrated Approach for BI and GIS in Health Sector", Faculty of Computers and Information, Helwan University, (Information Systems field, 2014).
11. "A Proposed Data Mining Technique to Improve Decision Support System in an Uncertain Situation", Faculty of Computers and Information, Helwan University, (Information Systems field, 2014).

12. "An Enhanced Framework to Achieve Temporal Semantic Interoperability for Effective Information Integration", Faculty of Computers and Information, Helwan University, (Information Systems integrated with Computer Science field, 2014).
13. "An Adaptive Model for Improving the Efficiency of Business Intelligence Applications", Faculty of Computers and Information, Helwan University, (Information Systems field, 2013).

- **MS.C. THESIS (*Selected ones 40 Theses*)**

CURRENT SUPERVISION

1. "Breast Cancer Diagnosis and Prognosis Using Stacking Ensemble Method", Faculty of Commerce and Business Administration, Helwan University (BIS, 2020).
2. "Adaptive Customization Detection Model Based on Knowledge Discovery", Faculty of Computers and Information, Helwan University, (Information Systems, 2019).
3. "Proposed Framework for the Application of the Electronic Accounting Information Systems in Special Funds in Government Units, an Applied Study", Faculty of commerce and Business Administration, Helwan University, (Information Systems, 2016).

GRANTED MS.C.

1. "A Proposed Model or Predicting Employee Turnover of Information Techniques Specialists Using Data Mining Techniques", Faculty of Commerce and Business Administration (BIS), Helwan University, 2021.
2. "The Effect of Quality Requirements on the Success of Information System Projects", Faculty of Commerce and Business Administration (BIS), Helwan University, 2021.
3. "Adaptive Model to Support Business Process Reengineering", Faculty of Computers and Artificial Intelligence, Helwan University, 2021.
4. "The Role of Information Technology in Measuring the Level of Job Satisfaction an Applied Study on the National Postal Authority" Military College of Management Sciences, 2021.
5. "Applying Smart Home Using Big Data Techniques", Faculty of Computers and Information, Helwan University, 2019.
6. "A Concept Map Approach for Software Requirements Validation", Faculty of Computers and Information, Helwan University, 2019.
7. "A Framework to Evaluate the Techniques of business Process Modelling", Faculty of Computers and Information, Helwan University, 2018.

8. "Societal Security – Business Continuity Management System of ISO 22301: 2012 Implementation Effect on Quality Performance of Educational Institute", Productivity and Quality Institute (PQI), Quality Institute, Arab Academy for Science, Technology and Maritime Transport, 2018.
9. "Intelligent Personalized System for Enhancing the Quality of Learning", Arab Academy for Science, Quality Institute, Technology and Maritime Transport, 2018.
10. "An Optimized Approach to Analyze Stock Market Using Data Mining Techniques", Faculty of Computers and Information, Helwan University, 2017.
11. "Mining Learning to Decision Making Support: The Case of Enhancing Students Performance Level in Helwan", Faculty of Computers and Information, Helwan University, 2017.
12. "An Integrated Business Intelligence Framework for Healthcare Analytic", Faculty of Computers and Information, Helwan University, 2017.
13. "A Proposed Load Balancing Technique for Green Cloud Computing and Environmental Sustainability", Faculty of Computers and Information, Helwan University, 2017.
14. "Proposed Model to Detect Key Performance Indicators in Banking", Faculty of Computers and Information, Helwan University, 2017.
15. "A Proposed Hybrid Secure Technique for Internet of Things Based Healthcare Application", Faculty of Science, Helwan University, 2017.
16. "Enhancing a computer-assisted Diagnosis System in Digital Mammography", Faculty of Science, Helwan University, 2017.
17. "Adaptive Business Process Management Model for Performance Enhancement", Faculty of Computers and Information, Helwan University, 2016.
18. "A proposed Metric for Measuring Reusability Effectiveness of Learning Objects in Learning Environments", Faculty of Computers and Information, Helwan University, 2016.
19. "Adoption of Cloud Computing Framework in Higher Education to Enhance Educational Process", Faculty of Computers and Information, Helwan University, 2015.
20. "An Adaptive Framework for Applying Cloud Computing in Virtual Learning Environment: a case study of AASTMT", College of Computing and Information Technology, Arab Academy for Science, Technology and Maritime Transport, 2015.
21. "A Proposed Framework for Implementing Data Mining Techniques to Enhance Decisions in Agriculture Sector, Applied Case on Food Security Information Center Ministry of Agriculture / Egypt", College of Computing and Information Technology, Arab Academy for Science, Technology and Maritime Transport, 2015.

22. "An Adaptive Web Mining Approach to Improve Customer Loyalty via Cloud Computing", College of Computing and Information Technology, Arab Academy for Science, Technology and Maritime Transport, 2015.
23. "A Structured Framework for Enhancing Software Projects' Quality", Faculty of Science, Helwan University, 2015.
24. "A proposed Business Intelligence Application to enhance corporate performance Management: Case Study in Inventory Management", Faculty of Computers and Information, Helwan University, 2014.
25. "A Proposed Framework for Component-Based Development", Faculty of Computers and Information, Helwan University, 2014
26. "A Proposed Tracking Defect Model for Software's classifying problem to enhance Quality Control", Faculty of Computers and Information, Helwan University, 2013.
27. "Biochemical Markers of Fibrosis for Chronic Liver Disease: Data mining-based Approach", Faculty of Computers and Information, Helwan University, 2013.
28. "A Proposed Framework for Apply Business Intelligence to Ontology Learning Style", Faculty of Computers and Information, Helwan University, 2013.
29. "Enhancement Business Intelligence Applications by applying Multi-Criteria Decision Marking", Faculty of Computers and Information, Helwan University, 2012.
30. "Enhancing E-Learning through Concept Mapping", Faculty of Computers and Information, Helwan University, 2011.
31. "A Data Reduction and Online Prediction Approach for Business Data Streams", Faculty of Computers and Information, Helwan University, 2012.

THESIS EVALUATION

I have been the chair of the committee for the evaluation of MSc and PhD dissertations in esteemed universities in Egypt:

- The Faculty of Computers and Information, Cairo University
- The Faculty of Computers and Information, Helwan University
- The Faculty of Science, Helwan University
- The Arab Academy for Science Technology and Maritime Transport (AASTMT)
- The Faculty of Science, Al Azhar University
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