

Curriculum Vitae



- **Name:** Ahmed Sharaf Eldin Ahmed Sharaf Eldin
- **Title:** Professor
- **Department:** Information Systems
- **E-mail:** ahmed.sharaf@su.edu.eg

A) Academic Qualifications:

- Bachelor's Degree in Engineering University: Cairo University, Egypt Year: 1966
- Master's Degree in Statistics, ISSR University: Cairo University, Egypt Year: 1971
- Ph.D. in Computer Science University: Loughborough, UK Year: 1987

- **Other Qualifications:** several postgraduate studies (diploma and Master levels) in Computing, Engineering, Management, Islamic monuments, and Islamic studies.

• **B) Academic promotions:**

- Professor Date: 1999

C) Scientific Merit:

- Google Scholar: <https://scholar.google.com/citations?user=m9jqvqoAAAAJ&hl=en>
- Scopes ID: [6603827232](#)
- Citations: 1040 h-index: 11 i10-index:25
- ORCID –No: [0000-0003-2245-8349](#)

D) Academic Administrative Experiences:

- Dean since 2014

E) Scientific Activities

1: Membership of Professional Organizations and Scientific Societies

- IEEE, ACM, IJST, AIS, ECS, Egyptian Eng. Syndicate

2: Training Courses/workshops:

- NCC London, Certificate in systems analysis and design, 1974.
- Several computer training courses conducted by ISSR (Cairo University), IBM, ICL, WANG, DEC, Unisys, Intergraph, Oracle, Sterling, P-tech, Microsoft, and HP in systems analysis and design, programming, application development, CASE tools, OO methodologies, Application frameworks, different applications and operating systems in the period from 1966 until now.
- Several training courses conducted by UNDP, QAA (UK), ETS (USA), QAAP (Egypt), HESA (UK), Bolton University (UK), Leeds University (UK), Vaxjo University (Sweden), HEA (Sweden), ASIIN (Germany), NAQAAE, and EFQM (Spain), in the areas of quality assurance and accreditation, education statistical databases, and major field testing during the period 2001 – 2012
- Several workshops were conducted by VTT (Finland), Aalborg (Denmark), and FORTH (Greece) in the areas of Medical and Bio Informatics during the period 2004 – 2008.
- Some workshops conducted by DAAD are concerned with University management.
- Two workshops conducted by Harvard Medical School (U.S.A.) during the period May-June, 2020 and October, 2020 were concerned with postgraduate medical education.
- Two workshops were conducted by Linnaeus University (Sweden) during the period 2013-2014 in the area of applied health informatics.
- Three workshops conducted by Oldenburg University (Germany), Magdeburg University (Germany), and the Royal Institute of Technology KTH (Sweden) in the area of Enterprise System Engineering, during the period 2013-2016.

3: Conferences, Seminars and Workshops:

- Selected as a session chair and invited speaker in many other conferences held in Egypt. Among which are the "Annual Conference for Computers, Statistics, and Operations Research", and the "International Conference for AI Applications
- Several workshops were conducted by VTT (Finland), Aalborg (Denmark), and FORTH (Greece) in the areas of Medical and Bio Informatics during the period 2004 – 2008.
- Some workshops conducted by DAAD are concerned with University management.
- Two workshops conducted by Harvard Medical School (U.S.A.) during the period May-June, 2020 and October, 2020 were concerned with postgraduate medical education.
- Two workshops were conducted by Linnaeus University (Sweden) during the period 2013-2014 in the area of applied health informatics.
- Three workshops conducted by Oldenburg University (Germany), Magdeburg University (Germany), and the Royal Institute of Technology KTH (Sweden) in the area of Enterprise System Engineering, during the period 2013-201.

4: Teaching Scopes: computer science and information technology

No.	Course Code	Title
1	IS 325	Data Processing Applications
2	IS 326	File Organization
3	IS 331	Introduction to Database Systems
4	IS 361	Operations Research Techniques
5	CAP 362	Computer Applications in Medicine
6	IS 425	Information Systems Development
7	IS 433	Database Management Systems
8	IS 435	Office Automation
9	IS 490	Information Systems Seminar
10	IS491	Special Topics (Datawarehousing, Data Mining, and Query Optimization)
11	IS 496, 497, 498, and 499	B. Sc. Graduation Projects
12	IS531	Document Storage and Retrieval Systems

13	IS 561	Artificial Intelligence and Knowledge-based Systems
12	IS 545	Management Information Systems (MIS)
13	IS 561	Operations Research/Quantitative Methods in Business

5: Scientific supervision number: 40

6: Awards and Certificates of Appreciation:

- The Cairo University Prize for Excellence, 1971.
- Co-inventor of a programmable calculator (but not patented), 1978.
- Saudi Computer Society medal 1990.
- Qatar University medal 1990.
- College of Computer and Information Sciences, King Saud University medal, 1999.
- Prince Sultan bin Abdelaziz International prize for water resources, branch number 4 (with others) 2004 (see: https://www.psipw.org/index.php?option=com_content&view=article&id=286&Itemid=232&lang=en)
- Best paper award 19th IEEE Symposium on Computers and Communications 2004.
- A medal of recognition from the Egyptian Air Defense Forces in 2018. Being one of those who participated in the construction of SAM 2 missiles during Dec. 1969-July 1970.
- A medal of recognition from the Al-Ashraf syndicate 2015.
- A medal of recognition from Cairo University, Faculty of Engineering, 2017.
- A medal of recognition from SDAIA in Saudi Arabia, Sep. 2023.
- A recognized reciter of the holy Quran. Given a certificate of Isnad with the 10 readings of the holy Quran. I have had many students in Egypt and outside since 1992.

7: Peer reviewing of scientific research/ Projects:

- Peer reviewer at NAQAAE (for QA in Higher Education Institutions). I also participated in defining the NARS for both the Engineering and Computing sectors. I also reviewed many ARS submitted to



NAQAAE. I was a member of the committee that set the 2015 standards. I also served as the head of the review team several times. Also served as a member of the technical office of NAQAAE.

- A peer reviewer for several national and international journals and conferences. Among which are: IEEE, ACM, IJST, Cognitive computation.
- A peer reviewer, head of the team of reviewers, and a member of the technical committee in NAQAAE since its establishment in 2007.

8: Consultancy Experience:

1. Selected as a member in the **National Council for Software research** in Egypt during 2003 – 2008.
2. Selected as a member in the **National Committee for Quality Assurance and Accreditation** in Egypt since 2004 till 2008.
3. Selected as a member of the steering committee for the establishment of the **Egypt-Japan University of Science and Technology (E-JUST)**. He also participated in the computer science staff selection process twice.
4. Selected as a member of the steering committee for the establishment of the **Egyptian e-learning University (EELU)**.
5. Selected as a member in the **National Committee for Informatics** in Egypt since 20th., Feb., 2001 till 2011.
6. Selected as a member in the **National Committee for Continuous Improvement and Qualifying for Accreditation (CIQAP)** in Egypt since 2007 till 2013.
7. Selected as an expert member in the **National Committee for Information and Communication Project (ICTP)** in Egypt since 2013 till 2015.
8. Selected as a member of the **IT committee in HU**.
9. Selected as a reviewer of **HEEPF, QAAP, CIQAP, RDI, STDF, ITIDA and ITAC** projects.
10. Peer reviewer at **NAQAAE** (for QA in Higher Education Institutions). I also participated in defining the NARS for both Engineering and Computing sectors. I also reviewed many ARS submitted to NAQAAE. I was a member of the committee which set the standards of 2015. I also served as the head of reviewing team several times. Also served as a member of the technical office of NAQAAE.
11. **Informatics Sector Committee (The supreme Council of Universities) coordinator** from 2007 till 2014.

12. **Consultant of the Supreme Council of Universities (SCU)** for the Informatics sector since 2006 till now.
13. **Member of the Service Science, Management, and Engineering (SSME)** committee since 2009 till 2010
14. Member of the **Strategic Planning Committee** in Helwan University (HU).
15. Board member of the **Strategic Planning Unit** in HU.
16. The originator and coordinator of the new **Software Engineering Program** at HU from 2006 to 2010..
17. Selected as an evaluator for the **Strategic planning** of Egyptian universities.
18. The originator and coordinator of the Master Program in **Medical and Bio Informatics** in HU from 2006 to 2011.
19. Member of the **Bologna process** promoters in Egypt. This committee is funded by the EU.
20. Selected as a Higher Education Reform Expert.
21. Appointed as a chairman of the scientific board of the Egyptian Health Informatics Fellowship till 2022. I am now the scientific advisor for the same fellowship.
22. An arbitrator in the permanent committee for promotions in Egypt and abroad since 2000.

9: Other Activities:

Prof. Ahmed has a very good record in research. He won many research grants by different bodies in Egypt and outside Egypt.

9.1 KACST Sponsored Projects

The following research projects are sponsored by King Abdelaziz City for Science and Technology (KACST). Research projects and researchers are selected on competitive basis. According to KACST regulations a progress report should be submitted every six months. A final report is also submitted at the end of the project. All the reports are scientifically reviewed.



1) One of the principal investigators of the "Solar Energy" project in the college of Engineering, King Saud University. A \$2,000,000 project sponsored by SOLERAS program. This program is a \$100,000,000 joint program between the USA and Saudi governments. I was responsible for real-time Data Acquisition and Computer Systems. In addition to this, I was responsible for the design and implementation of the Solar Energy Database. The duration of this project was 5 years (1980-1985). At the end of this project a three-volume report was submitted to KACST. It was reviewed and accepted.

2) One of the senior investigators of the "Arabic Character Recognition" project in the College of Engineering, King Saud University. This project is sponsored by KACST (Project # AR-6-20). This is a \$ 100,000 lasted for three years (1984-1987). At the end of this project a three-volume report was submitted to KACST. It was reviewed and accepted.

3) One of the senior investigators of the "Computer-controlled Irrigation Scheduling", project in the College of Agriculture, King Saud University. This project is sponsored by KACST (Project # AR-10-9). The budget of this project was \$450,000. It was completed in four years (1991-1995). At the end of this project a two-volume report was submitted to KACST. It was reviewed and accepted. This project was selected as the best research project funded by KACST.

4) One of the senior investigators of the "An Expert System for Evaluation of Concrete Deterioration in Saudi Arabia". This project is sponsored by KACST (Project # AR-15-14). The total duration of the project is 30 months with a budget of \$ 90,000. At the end of this project a two-volume report was submitted to KACST. It was reviewed and accepted.

5) I have been selected as a senior consultant for an important nation-wide project. This is the National Comprehensive Plan for Science and Technology in Saudi Arabia. The first phase of this project was concerned with the study of the present conditions for Science and Technology in Saudi Arabia. This phase started March 1997 and ended June 1998. I was responsible for the study of the present conditions for S&T in the Informatics sector.

In addition to this, I participated in other KACST sponsored projects as a consultant. I am also selected as a peer reviewer for many projects they sponsor or submitted for sponsorship.



9.2 KSU Sponsored Projects

The following research projects are sponsored by King Saud University (KSU) research centers. Research projects and researchers are selected on competitive basis. According to KSU research center regulations, a final report is required at the end of the project. This report is sent to reviewers for evaluation in order to be accepted.

- 1) One of the senior investigators of the "Graph Theory Applications in finding all possible partitions of available courses for student registration" project in the College of Science, King Saud University. This project is sponsored by CSRC (Project # SAT/1410/04). It lasted for 2 years with a budget of \$10,000.

- 2) One of the senior investigators of the "A Hill-Climbing Algorithm for the Generation of Skolem Sequences and Applications", project in the College of Science, King Saud University. This project is sponsored by CSRC (Project # MATH/1413/16). It lasted for 2 years with a budget of \$10,000.

- 3) One of the senior investigators of the "Computerization of Real Estate Registration in Saudi Arabia" project in the College of Computer and Information Sciences, King Saud University. This project is sponsored by CCISRC (Project # RC 2/14-15). It lasted for 2 year with a budget of \$2,500.

- 4) The sole investigator of the "Study of Arabic Poetry Prosody by Computer" project in the College of Computer and Information Sciences, King Saud University. This project is sponsored by CCISRC (Project # RC 1/14-15). It lasted for 2 year with a budget of \$2,600.

9.3 HEEPF Sponsored Projects

The following project was sponsored by the Higher Education Enhancement Project Fund (HEEPF). Projects are selected on competitive basis. According to HEEPF regulations, a final report is required at the end of the project in addition to progress reports every three months. All reports are sent to reviewers for evaluation in order to be accepted.



1) Project manager of the "Establishment of Quality Assurance Mechanisms at Helwan University", Project number B-131-K0. Duration of the project is 2 years (Sep. 2004 – Sep. 2006) with a budget of \$95,100.

9.4 QAAP Sponsored Projects

The following project was sponsored by the Quality Assurance and Accreditation Project (QAAP). Projects are selected on competitive basis. According to QAAP regulations, a final report is required at the end of the project in addition to progress reports. All reports are sent to reviewers for evaluation in order to be accepted.

1) Project coordinator of the "Strategic Planning for Quality Assurance at Helwan University", Project number HEL/01/01. It lasted for 6 months with a budget of L.E. 122,000.

9.5 TEMPUS, Erasmus, and Erasmus+ Sponsored Projects

The following projects were sponsored by the European Commission through the TEMPUS, Erasmus, and Erasmus+ programs. Projects are selected on very competitive basis. According to EU regulations, a final report is required at the end of the project in addition to one or two progress reports. All reports are sent to reviewers for evaluation in order to be accepted.

1) Project manager and coordinator of the "**Developing Quality Assurance System in selected Egyptian Universities (QAM)**", Project number SCM-M024A04-2004. It lasted for 15 months with a budget of Euro 134,000. The European partners are from UK and Sweden. As one of the outcomes of this project, a framework of the QA system in universities was developed.

2) Project manager and coordinator of the "**Curriculum Development of a Medical Informatics Master Program (MIMP)**", Project number JEP-31053-2003. It lasted for 36 months with a budget of Euro 429,000. The European partners are from Finland, Denmark, and Greece. This is the first academic program in medical and bio informatics in Egypt.

3) Representative of Helwan University of the "**Strengthening the institutional capacity of Arab Universities (ALTAIR)**", Project number 144789-TEMPUS-1-2008-1-ESTEMPUS-JPGR. Duration is Oct., 2008 – Mar. 2012. The European partners are from Spain, U.K., and Germany. The total budget of the project is Euro 890,000.

4) Representative of Helwan University of the "**Joint Master in Software Engineering (JMSE)**", Project number 530637-Tempus-1-2012-PS-Tempus-JPCR. It started Oct., 2012 and ended in 2016. The European partners are from Italy, U.K., Greece, and Germany. The total budget of the project is Euro 1,338,321.49. This is the first master program in software engineering in Egypt.

5) Representative of Helwan University of the ““Advanced Training and life Long learning Program in Applied Health Sciences “, project no. 543889-TEMPUS-1-2013-1-SE-TEMPUS-JPHES, started 2013 and ended in 2017.

6) Representative of Sinai University of the “Knowledge triangle innovation: reinforcing of education-research e.health and medical Links”, Erasmus+ project 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP. It started in 2019 and ended in Nov. 2023.

7) Representative of Sinai University of the “Exporting an M.Sc. In Enterprise System Engineering to Egypt, Tunisia, Jordan and Syria”, Tempus project number 530260-TEMPUS-1-2012-L-DE-TEMPUS-JPCR. It started in 2013 till 2017.

8) HU representative in an EU funded project for mobility. The project is Erasmus Mundus with a total budget of about 3 million Euros. This project started 2010-2011 and ended in 2012. (FFEEBB-1). Flow-by-Flow EU-Egypt Bridge Building 1

9) HU representative in an EU funded project for mobility. The project is Erasmus Mundus with a total budget of about 4 million Euros. This project started in 2012 and ended in 2014. (FFEEBB-2).

7.6 PCIQA Sponsored Projects

1) Project manager of the project "Development of Students' Assessment System at Helwan University **SAS-HU**" **project no. AP1-028-Hel with a total budget of LE 2370456**. The project started 1-11-2009 and ended in 30-09-2011.

9.7 Other Sponsored Projects



1- A senior investigator of the "Arabic Computational Linguistics" project. This project is sponsored by the Academy of Scientific Research in Egypt. The project is a multi-phase project lasted for 3 years (2000-2003).

2- Participated in the LinkSCEEM consortium funded by the EU under the FP7 program. It is concerned with the establishment of a Computation based Science and Technology Research Center with the collaboration of the Cyprus Institute of Technology, 2008 and 2009.

3- HU coordinator and representative in a UNDP funded project for QA in the Arab universities during 2002-2007.

4- Project manager of "Criteria Development for the evaluation and authentication of digital Quran.", 2015-2016

F) Scientific Publications:

- More than 150 papers are published in different international and national journals and conferences. Over seventy-five of them are after obtaining my Ph.D. In addition to this, five textbooks have been authored. Several technical reports were submitted in addition to many essays in newspapers and magazines. The major areas of my publications are as follows:

- 1) Computer Applications in Islamic Studies.
- 2) Arabization and Arabic literature.
- 3) AI and Pattern Recognition.
- 4) Databases and Expert Systems.
- 5) Mathematical Software.
- 6) Computer-Controlled Irrigation
- 7) Programming Languages
- 8) Medical and Bioinformatics
- 9) Miscellaneous

A short list of some of the research publications follows during the last 5 years follows.

Some recent Papers by Ahmed Sharaf Eldin during the past 5 years (2019-now)

- A. Sharaf Eldin, Asmaa S. Ahmoud, Hanaa M. Hamza, and Hanin Ardah, “ Enhancing Early Detection of Diabetic Foot Ulcers Using Deep Neural Networks“, *Diagnostics* 2025, 15(16), 1996; <https://doi.org/10.3390/diagnostics15161996>
- A Sharaf Eldin, Eman I Salem, Khalid A Eldrandaly, Nissreen El-Saber, “AMFUP: An Adaptive Multi-Modal Framework for Unexpected Pattern Discovery in Dynamic and Cross-Domain Environments”, *International Journal of Computers and Informatics*, V8, pp. 109-125 (July 2025).
- AS Eldin, AS Ahmoud, HM Hamza, “Computer-Aided Detection of Diabetic Foot via Infrared Imaging using Machine and Deep Learning Approaches: A Survey”, *International Journal of Computers and Informatics (Zagazig University)*, V7, 2025
- BA Sayed, AS Eldin, DS Elzanfaly, AS Ghoneim, “Breast Cancer Detection using Thermography and Convolutional Neural Networks (CNNs)”, *International Conference on Advanced Intelligent Systems and Informatics*, 2025
- A. Sharaf Eldin, Asmaa S. Ahmoud, Hanaa M. Hamza, Computer-Aided Detection of Diabetic Foot via Infrared Imaging using Machine and Deep Learning Approaches: A Survey , *International Journal of Computers and Informatics (Zagazig University): Vol. 7 (2025): International Journal of Computers and Informatics*
- Ahmed Sharaf Eldin, “The lost dimension in the search engines for the Holy Quran”, *Newsletter of the International Computing Institute for Quran and Islamic Sciences*, Vol. 1, no. 2, 2024
- A. Sharaf Eldin, “An Intelligent Student Advising System”, A paper presented at NAQAAE 7th Int. Conference “QA of Education in the AI era”, Cairo, 2-5 Nov, 2024
- Ahmed Mahfouz, Hebatollah Mostafa, Tarek M. Mahmoud, and• Ahmed Sharaf Eldin, “M2auth: A multimodal behavioral biometric authentication using feature-level fusion”, *Neural Computing and Applications* (2024) 36:21781–21799, <https://doi.org/10.1007/s00521-024-10403-y>

Mahfouz, A., Mostafa, H., Mahmoud, T.M. et al. M2auth: A multimodal behavioral biometric authentication using feature-level fusion. *Neural Comput & Applic* 36, 21781–21799 (2024). <https://doi.org/10.1007/s00521-024-10403-y>

- MG Elfiky, S Ghoniemy, AS Eldin, “Predict of the Hidden Drug Interactions Based on Similarity Utilizing the Knowledge Graph”, 2024 International Conference on Computer and Applications (ICCA).
- Ahmed Sharaf Eldin, “Pitfalls in the Computerization of the Holy Quran”, IMAN, 2023, invited speaker. 2023
- NA Othman, AS Ahmed, AS Eldin, “[A Hybrid Filtering Technique of Digital Images in Multimedia Data Warehouses](#)”, *International Journal of Advanced Computer Science and Applications* 14 (1), 2023
- Ibrahim, H., Abdo, A., El Kerdawy, A. M., & Eldin, A. S. (2021). Signal Detection in Pharmacovigilance: A Review of Informatics-driven Approaches for the Discovery of Drug-Drug Interaction Signals in Different Data Sources. *Artificial Intelligence in the Life Sciences*, 1, 100005. <https://doi.org/10.1016/j.aillsci.2021.100005>
- GAS Abd-Elaleem, F Elsheref, R Maher, A Elsayed, DS Elzanfaly, A. Sharaf Eldin, “Diagnosis Hepatitis B Using Machine and Deep Learning: Survey”, *National Conference on Big Data Technology and Applications*, 97-116, 2021
- H Ibrahim, A Abdo, AM El Kerdawy, AS Eldin, “Signal detection in pharmacovigilance: a review of informatics-driven approaches for the discovery of drug-drug interaction signals in different data sources”, *Artificial intelligence in the life sciences* 1, 100005, 2021
- AB Farid, EM Fathy, AS Eldin, LA Abd-Elmegid,” Software defect prediction using hybrid model (CBIL) of convolutional neural network (CNN) and bidirectional long short-term memory (Bi-LSTM)”, *PeerJ Computer Science* 7, e739, 2021
- Ibrahim, H., El Kerdawy, A. M., Abdo, A., & Sharaf Eldin, A. (2020). Similarity-based machine learning framework for predicting safety signals of adverse drug–drug interactions. *Informatics in Medicine Unlocked*, 26, 100699. <https://doi.org/10.1016/j.imu.2021.100699>
- Sarah Saad Eldin, Ammar Mohamed, Hesham Hefn, Ahmed Sharaf Eldin Ahmed. “Implicit feature identification based Arabic opinion retrieval approach”, 2019

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G) Quality Assurance in Higher Education:

- **Reviewer/Editor**
- Head of the review team
- **QA Trainer**
- Delivers several training courses in the area of QA
- **QA Managing Positions**
- Founder and Director of the Quality Assurance Center at Helwan University 2004-2010.
- Director of the Quality Assurance Center at Sinai University 2015-2020.
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- Founder and Director of the Student Assessment and Examination Center at Helwan University 2009 – 2015.

H) Skills

- Language Skills: Arabic, English (fluent) and German (fair).
- Computer Skills: excellent
- Presentation skills: excellent
- Other skills: a recognized Quran reciter.