

Curriculum Vitae
Prof. Ahmed Sharaf Eldin Ahmed



I) Personal Data

Name: Ahmed Sharaf Eldin Ahmed Sharaf Eldin

Business Address: Faculty of Computers and Artificial Intelligence, Helwan University, Ain Helwan, Helwan, Egypt.

Position: Professor, Information Systems Department.

Currently on loan , the Dean of the Faculty of Information Technology and Computer Science, Sinai University, Arish, North Sinai, Egypt.

Languages: Arabic, English (fluent) and German (fair).

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II) Educational Data

1. B.Sc., Faculty of Engineering, Cairo University, 1966.

2. H. Dipl. Statistics, ISSR, Cairo University, 1971

3. Ph.D. Computer Science, Loughborough (UK), 1987.

In addition to several postgraduate studies (diploma and Master levels) in Engineering, Management, Islamic monuments, and Islamic studies.

III) Professional Training

1) NCC London, Certificate in systems analysis and design, 1974.

2) 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.

3) 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

4) 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.

5) Some workshops conducted by DAAD are concerned with University management.

6) 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.

7) Two workshops were conducted by Linnaeus University (Sweden) during the period 2013-2014 in the area of applied health informatics.

8) 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.

IV) Employment History

1. Engineer, Suez Canal Authority, Egypt, Oct. 1966- July 1970.

2. First Engineer, Suez Canal Authority, Egypt, July 1970- Sep. 1974.
3. Senior Analyst/Programmer, College of Engineering, King Saud University (KSU), Saudi Arabia, Sep. 1974- Jan. 1980.
4. System Manager, College of Engineering, KSU, Jan.1980- Sep. 1988.
5. Assistant Professor, College of Computer and Information Sciences, KSU, Sep. 1988-1996.
6. Associate Professor, College of Computer and Information Sciences, KSU, 1996-Nov., 1999.
7. Professor, Faculty of Computers and Information, Helwan University (HU), Nov., 1999 - now.
8. Appointed as the Information Systems department (HU) chairman since April, 1st., 2000.till April 2004 and then from 2011 till 2013.
9. Appointed as the vice dean for education and student affairs (HU) since Sept., 11th., 2002 till July 2007. .
10. The founder and the Manager of the Quality Assurance Center (QAC) of Helwan University (HU) during the period 2004-2010. There are 20 satellite QA units in the Faculties belong to the QAC.
11. The founder and manager of the Student Assessment Center (SAC) of Helwan University since 2009 till 2015. There are 20 satellite SA units in the Faculties belong to the SAC.
12. The dean of the Faculty of Information Technology and Computer Science, Sinai University(SU) since Sep. 2014 till now.
13. Manager of the Quality Assurance Center, Sinai University during the period 2014-2020.
14. Advisor of the president of SU for QA during the period 2020-2023.
15. One of the founders of the International Computing Institute for Quran and Islamic Sciences since 2022.
16. A member of the board of trustees of the International Computing Institute for Quran and Islamic Sciences since 2025.

V) Special Assignments

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.

VI) Teaching Experience

6.1 Courses taught for the students of the College of Computer and Information Sciences, and the College of administrative sciences at King Saud University:

The following table shows the courses taught for senior undergraduates and M.Sc. students. 500-level courses are M.Sc. courses.

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	IS537	Artificial Intelligence and Knowledge-based Systems
12	IS 545	Management Information Systems (MIS)
13	IS 561	Operations Research/Quantitative Methods in Business

6.2 Courses taught for the students of the Faculty of Computers and Information, Faculty of Commerce and Business administration, Faculty of Social Works, Faculty of Education, and Faculty of Applied Arts at Helwan University:

The following table shows the courses taught for senior undergraduates and M.Sc. students. 600-level courses are M.Sc. courses while 700-level courses are Ph. D. courses.

No.	Course Code	Title
1	IS 113	Introduction to Informatics and System Concepts
2	CS 311	Simulation and Modeling
3	IS 313	Information Systems
4	IS 321	Database Design and Management
5	IS 421	Database – 2
6	IS 341	Software Engineering
7	BIS 311	Systems Analysis and Design I
8	IS 325	Elective Course - AI and Expert Systems
9	CS 322	Software Project Management
10	IS 324	Seminar
11	IS 411	Elective Course - File Organization
12	IS 415	Graduation Project -1
13	IS 425	Graduation Project -2
14	IS 531	Project Management
15	IS 561	Introduction to Medical and Bio Informatics
16	IT 531	Systems Analysis and Design
17	IT 591	Diploma Graduation Project
18	IS 611	Multimedia Information Systems
19	CS 611	Theory of Computation
20	IS 661	Medical Informatics
21	IS 637	Advanced Databases
22	IS 643	Electronic Health Records
23	IS 615	M.Sc. Graduation Project-1
24	IS 622	Software Quality Assurance
25	IS 623	Elective Course - Information Retrieval Systems
26	IS 623	Elective Course - Query Processing and Optimization in DB
27	IS 625	M.Sc. Graduation Project-2
28	IS 701	Fundamentals of IS
29	IS 702	Advanced Databases
30	IS 703	Data Mining
31	IS 704	E-Commerce
32	BIS 411	Systems Analysis and Design II
33	IS432	Software Methodologies
34	IS 454	Data warehousing
35	IS 721	e-Assessment

6.3 Courses taught for the students of the Faculty of Computers and Information, Suez Canal University (2000 - 2001 - 2002):

Computer Arabization.

Multi Media Systems

Graduation Projects

6.4 Courses taught for the students of the Computer Science Department, the Arab Academy for Science and Technology (AASCT) during 2000 till 2015

CS111: Introduction to Computers

CC241: Theory of Computation

CS211: Theory of Computation

CC242: Visual Programming

CC316: Object Oriented Programming

CS 324: Algorithms

CC342: Structure of Programming Languages

CC410: System Programming

CS481: Computers and Society

CS521: Data Warehousing and Mining (M.Sc. course)

6.5 Courses taught for the students of the Computer Department, the Ulson High Institute 2001- 2008:

Computer Architecture and Assembly Language

Office Information Systems

Decision Support Systems

Graduation Projects

6.6 Courses taught for the students of the Higher Institute for Technological Studies 2004- 2006:

Multimedia Systems

Database Management Systems

Decision Support Systems

6.7 Courses taught for the students of the Future University in Egypt during 2007-2008:

Computers and Society

e-learning

Database Systems

Introduction to Computing

6.8 Courses taught for the students of the Canadian International College (CIC) in Cairo 2009- 2013:

Advanced Programming - Oracle

Data Warehouse

Software Engineering

Management Information Systems

Graduation Projects

6.9 Courses taught for the students of the Computer Department, Thebes Academy, 2003: Database Systems

6.10 Courses designed for computer professionals. These courses were arranged via the Saudi Computer Society. I taught these courses more than once.

No.	Course Title
1	Expert Systems Design and Implementation
2	Client/Server Computing
3	SQL

6.11 Courses prepared for KSU staff. These courses were arranged via the EDP department in the University.

No.	Course Title
1	IMSL mathematical and statistical libraries.
2	Interactive Instruction system (IIS)
3	Finite Elements Software
4	Numerical Methods for Engineers

6.12 Courses given via the deanship of Community Service and Continuing Education, KSU. I designed and taught these courses.

No.	Course Title
1	Project Evaluation and Review Techniques (PERT).
2	Computer-Aided Structural Analysis and Design
3	Introduction to Database Systems
4	Systems Analysis and Design.

6.13 Courses designed and given for computer users in KSU.

No.	Course Title
1	Operating systems fundamentals.
2	Introduction to the TSO/SPF system.
3	Introduction to the VM/CMS.
4	Computer graphics and digitizer.

6.14 Programming Courses taught via the deanship of Community Service and Continuing Education and the EDP department in KSU.

No.	Course Title
1	Introduction to computer programming.
2	COBOL programming language.
3	FORTRAN programming language (VS-FORTRAN)
4	FORTRAN programming language with WATFIV-S
5	BASIC programming language.
6	NATURAL (a 4GL for ADABAS DBMS)

6.15 Tailored courses given to particular organizations.

No.	Course Title	Organization
1	Structured Systems Analysis and Design	Saudi Navy
2	IMAGE/3000 DBMS	Saudi Air Forces
3	SQL	Ministry of Justice, Saudi Arabia
4	Information Technology in Banks	Islamic International Bank for Investment and Development (IBID) - Cairo - Egypt

6.16 Courses taught for the students of the Institute of Statistical Studies and Research – Cairo University during 2007.

Advanced Software Engineering (M. Sc. course)

6.17 Courses taught for the students of the Faculty of Information Technology and Computer Science, Sinai University since 2014 till now.

File Organization & Processing (CSW 241)

Software Engineering (CSW 263)

Parallel Processing (CSW 325)

Web client side Programming (CSW 337)

WDT Project (INT 349W)

Digital Signal Processing (INT 421)

Information Engineering (INT 461)

Introduction to Operations Research (ISD 220)

Database systems (1) (ISD 242)

Reading and Presentation Skills (HU 212)

Communication Skills (HU 230)

6.18 Research Supervision

Supervised and examined many M.Sc. and Ph.D. theses in Saudi Arabian, and Egyptian Universities. Also examined an M.Sc. thesis in the CS department in the American University, Cairo.

A detailed report of theses in Helwan University (HU) is attached in a separate document.

A very small sample of theses outside HU follows:

1- Ph. D. thesis in Arabic Language Science, Dar Eloloom, Cairo University, "الاكتشاف"

الصوتي في القرآن الكريم" - ٢٠١٥

2- Ph. D. thesis in Faculty of Science, Minia University, "**Data Protection in Smartphones**"m 2017

VII) Sponsored Research Projects

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

7.1 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.

7.2 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.

7.3 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.

7.4 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.

7.5 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-TEM PUS- I-2012-L-DE-TEM PUS-J PCR. 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.

7.7 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

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VIII) Computer Consultations for Governmental Agencies

I served as a part-time computer consultant and software developer for many places in Egypt (1970 – 1974, 2000-2020) and in Saudi Arabia (1974 - 1999). I shall list here the most important places **after** earning my Ph.D.

1) A consultant for the King AbdulAziz City for Science and Technology (KACST) for the strategic planning for science and technology in Saudi Arabia (1997- 1998). I am responsible for the study of the present conditions for S&T in the Informatics sector.

- 2) A consultant for the General Organization for Technical Education and Vocational Training, Saudi Arabia (1997-1998). I am a member in a team for curriculum design for the technical colleges in Saudi Arabia.
- 3) A member of the consultation team for the computerization in the Ministry of Justice, Riyadh, (1993-1999). This includes strategic planning for Information Systems and other computerization studies.
- 4) Project manager for a project to computerize real estate records and transactions, ministry of Justice (1991- 1994).
- 5) A consultant for the Ministry of Public Works and Housing, Riyadh, (1990).
- 6) A member of the consultation team for the computerization of Riyadh municipality, (1990-1991).
- 7) A member of the consultation team for the computerization of Saline Water Conversion Corp. (SWCC) project management, Riyadh (1989-1990).
- 8) A consultant for the Imam Mohammed Bin Saud Islamic University, Riyadh (1989).

IX) Other Scientific Activities

- 1) Selected as session organizer and chairman for the Annual Pittsburgh Conference on Modeling and Simulation, University of Pittsburgh, Pittsburgh, USA. (1984-1992)
- 2) Selected as an associate editor for the proceedings of the Annual Pittsburgh Conference on Modeling and Simulation, University of Pittsburgh, Pittsburgh, USA. (1984-1992)
- 3) Selected as an invited lecturer by the International Computational Engineering Science Conference Committee for the Post Conference seminar, 1988, Orlando, USA. I was the only selected lecturer from a country other than USA and Japan.
- 4) Selected as an invited speaker by the International Conference for computer applications in Islamic Studies, sponsored by the Islamic Development Bank, Jeddah, Nov., 1990.
- 5) Selected as an invited speaker by the International Center for Sunna and Seera, Qatar, 1990.
- 6) Selected as an invited speaker by the 2 nd. Arabization Symposium, King Saud University, Riyadh, 1994.
- 7) 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".
- 8) Selected as a consultant for the UNDP during 2002. The assigned work was to review and assess the computer science programs in the University of Damascus, Syria. The team was composed by the Quality Assurance Agency (QAA) in U.K.
- 9) Contracted by the German organization (GTZ) to develop an educational software (Computer based Information and Education System- RMC) during 2002-2003.
- 10) On the Editorial board of the **"Egyptian Computer Science Journal - ECS" since 2000**
- 11) On the Editorial board of the **"Business Process Management" international journal since 2004.**
- 12) On the Advisory board of the "King Saud University" Journal – Computer and Information Sciences Division, 2009-2012).

- 13) A peer reviewer for several national and international journals and conferences. Among which are: IEEE, ACM, IJST, Cognitive computation..
- 14) A peer reviewer, head of team of reviewers, and a member of the technical committee in NAQAAE since its establishment in 2007.
- 15) A member of the editorial board of the newsletter of the International Computing Institute for Quran and Islamic Sciences since 2022. Published two essays in vol. 1 and 2 of the newsletter.
- 16) A member of the International Computing Institute for Quran and Islamic Sciences since 2022
- 17) A member of the board of trustees of the International Computing Institute for Quran and Islamic Sciences since 2025.
- 18) Selected as an invited speaker by the IMAN 11 conference, Dec. 2023. The lecture given titled “Pitfalls in the Computer Applications of the Holy Quran”

X) Prizes and Inventions

- 1) The Cairo university prize for excellence 1971.
- 2) Co-inventor of a programmable calculator (but not patented) 1978.
- 3) Saudi Computer Society medal 1990.
- 4) Qatar University medal 1990.
- 5) College of Computer and Information Sciences, King Saud University medal, 1999.
- 6) 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)
- 7) Best paper award 19th IEEE Symposium on Computers and Communications 2004
- 8) A medal of recognition from the Egyptian Air Defense Forces 2018. Being one of who participated in the construction of SAM 2 missiles during Dec. 1969-July 1970.
- 9) A medal of recognition from Al-Ashraf syndicate 2015
- 10) A medal of recognition from Cairo University, Faculty of Engineering, 2017
- 11) A medal of recognition from SDAIA in Saudi Arabia, Sep. 2023
- 12) A recognized reciter of the holy Quran. Given a certificate of Isnad with the 10 readings of the holy Quran. I have many students in Egypt and outside since 1992.

XI) 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) 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.

11.1 Computer Applications in Islamic Studies.

1. 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
2. Ahmed Sharaf Eldin, "Pitfalls in the Computerization of the Holy Quran", IMAN, 2023, invited speaker.
3. Ahmed Sharaf Eldin and Shaimaa Abbas, "Knowledge representation of Quran Text: A literature review", ECSJ, 2018
4. Abbas, S, A. Sharaf Eldin, and A. Elsayed." The effect of Concept Mapping and Mind Mapping Utilization on Students' Understanding of Quranic text: An Empirical Study", CMC2018, 2018
5. Abbas, S, A. Sharaf Eldin, and A. Elsayed. "A proposed system for conceptual representation of the holy quran", CMC2018, 2018
6. Sharaf Eldin, A, "Authentication of Digital Mushaf", a keynote speaker at the first international conference of digital Mushaf, Cairo, Aug. 2015
7. Sharaf Eldin, A., and H. Abolhamayil, "A System for the Study of Quranic Miracle", ECSJ, 2010
8. Sharaf Eldin, A. "Methodology of Auditing IS: an Islamic Perspective", a Workshop on the Auditing of Information Systems organized by the Arab Organization of Administrative Developments, Cairo, 18-22, April, 2004 (in Arabic).

9. Sharaf Eldin, A. "Computers and Islamic Studies : The Qur'an", J. King Saud University, Vol. 7, Comp. & Inf. Sci, 1995, pp. 1-28. (in Arabic).
10. Sharaf Eldin, A. " Computers and Hadith Studies", SSRC Journal, Qatar University, Vol. 8, 1995, pp.253-292 (in Arabic).
11. Shinghera, Z., A. Sharaf Eldin, and M. Al-Bargi, "Distributed Multimedia Islamic Information System", Proceedings of Multimedia: Tools, Application, and Trends Symposium, Dec. 5-6, 1995, Dhara, Saudi Arabia, pp. 57-67.
12. Sharaf Eldin, A. "Computers in Hadith", Proceedings of the 2 nd. Arabization Symposium, King Saud University, Riyadh, 1994. (Invited Paper, in Arabic).
13. Sharaf Eldin, A. "Software for the Hadith Data Base", Conference of the Use of computers in Islamic Studies, Sponsored by the Islamic Development Bank, Jeddah, Nov., 1990. (Invited Paper, in Arabic).
14. Sharaf Eldin, A. " Informatics in the Holly Quran and Sunna", 12th. NCC, 21-24 Oct., 1990, pp. 752-756, (In Arabic).
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	Some recent papers 1. Sharaf Eldin, Asmaa S. Ahmoud, Hanaa M. Hamza, and Hanin Ardah, “ Enhancing Early Detection of Diabetic Foot Ulcers Using Deep Neural Networks“, <i>Diagnostics</i> 2025, 15(16), 1996; https://doi.org/10.3390/diagnostics15161996 2. Ahmed Sharaf Eldin, “The lost dimension in the search engines for the Holy Quran”, Newsletter	الأبحاث المنشورة

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	<p>1- Prince Sultan bin Abdelaziz International prize for water resources, branch number 4 (with others) 2004</p> <p>2- Best paper award 19th IEEE Symposium on Computers and Communications 2004</p> <p>3- The Cairo university prize for excellence 1971.</p>	<p>الجوائز</p>