Curriculum Vitae

**Prof. Ahmed Sharaf Eldin Ahmed**

**I)** **Personal Data**

Name: Ahmed Sharaf Eldin Ahmed

Current Position: Dean, Faculty of Information Technology and Computer Science, Sinai University, Arish, North Sinai, Egypt. Also the advisor of the university president for Quality Assurance. He is on loan from. Helwan University.

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

Permanent Position: Professor, Information Systems Department, Faculty of Computers and Artificial Intelligence, Helwan University.

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 and OR, ISSR, Cairo University, 1971

3. Postgraduate studies (Master and H. Diploma) in Engineering, Statistics, Islamic Studies, Management, Islamic Monuments, and Computing during the period 1968-1974.

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

**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, SAS, 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 (Egypt), 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 conducted by VTT (Finland), Aalborg (Denmark), Vaxjo (Sweden), and FORTH (Greece) in the areas of Medical and Bio Informatics during the period 2004 – 2015.

5) A workshop about Medical Fellowship and e-learning in medical education conducted by Harvard Medical School, May – June, 2020

**IV) Administrative Positions in Academia**

1. 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.

2. The founder and manager of the Student Assessment Center (SAC) of Helwan University since 2009 till 2015. There are 21 satellite SA units in the Faculties belong to the SAC..

3.The Manager of the Quality Assurance Center (QAC) of Sinai University (SU) since Dec. 2014 till Sep. 2020. There are 14 satellite QA units in the Faculties belong to the QAC.

**V) Special Assignments**

2. Appointed as the chairman of the **scientific board of the“Health Informatics Fellowship”** since Jan. 2020 till Jan. 2022.

2. Selected as a member in the **National Council for Software research** in Egypt during 2003 – 2008.

3. Selected as a member in the **National Committee for Quality Assurance and Accreditation** in Egypt since 2004 till 2008.

4. 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.

5. Selected as a member of the steering committee for the establishment of the **Egyptian e-learning University (EELU).**

**6.** Selected as a member in the **National Committee for Informatics** in Egypt since 20th., Feb., 2001 till 2009.

**7.** Selected as a member in the **National Committee for Continuous Improvement and Qualifying for Accreditation (CIQAP)** in Egypt since 2007 till 2014.

8. Selected as a member of the **IT committee in HU**.

9. Selected as a reviewer of **ITIDA, STDF, and ITAC** projects.

10. Peer reviewer at **NAQAAE** (for QA in Higher Education Institutions).

11. **Informatics Sector Committee coordinator** from 2007 till 2015.

12. **Consultant of the Supreme Council of Universities (SCU)** for the Informatics since 2006 till now.

13. **Member of the Service Science, Management, and Engineering (SSME)**  committee since 2009 till 2012

14. Evaluator of **RDI** projects in its first two cycles.

15. Evaluator of **STDF** projects.

16. Member of the **Strategic Planning Committee** in Helwan University (HU).

17. Board member of the **Strategic Planning Unit** in HU.

18. The originator and coordinator of the new **Software Engineering Program** at HU during the period 2006-2012

19. Selected as an evaluator for the **Strategic planning** of Egyptian universities.

20. The originator and coordinator of the Master Program in **Medical and Bio Informatics** in HU (funded by EU) during the period 2003-2012..

21. Member of the **Bologna process** promoters in Egypt. This committee is funded by the EU during the period 2010-2012.

22. Selected as a **Higher Education Reform** Expert.

**23.** The originator and coordinator of the **Master Program in Software Engineering**

in HU since Oct., 2012 till 2017 (funded by EU).

24. The originator and coordinator of the **Master program in Applied Health Sciences** in HU since Dec. 2013 till 2016 (funded by EU).

25. Selected as the representative of SU in the Master Program in Enterprise Systems Engineering (ESE) since Dec. 2014 till 2017 (funded by EU).

26. Originator and head of the steering committee of the project "**Criteria Authentication of Digital Quranic Products"** since 2015 till 2019 (funded by SA).

27. Member of the new project ICU- RERE (funded by EU) since Dec 2019 till now.

**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 (Data warehousing, 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 | IS 705 | Advanced Information Storage and Retrieval Systems |
| 33 | BIS 411 | Systems Analysis and Design II |
| 34 | IS432 | Software Methodologies |
| 35 | IS 454 | Data warehousing |
| 36  | 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 2014:

CS111: Introduction to Computers

CC241: Theory of Computations

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- 2014:

Advanced Programming - Oracle

Data Warehousing

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.

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| --- | --- |
| 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.

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| --- | --- |
| 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.

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| --- | --- | --- |
| 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 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.

**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 Sponsored Projects

The following projects were sponsored by the European Commission through the TEMPUS program. Projects are selected on competitive basis. According to Tempus regulations, a final report is required at the end of the project in addition to 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 and coordinator of Helwan University in 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 and coordinator of Helwan University in the "**Joint Master in Software Engineering (JMSE)**", Project number 530637-Tempus-1-2012-PS-Tempus-JPCR. Duration is Oct., 2012 – July 2016. The European partners are from Italy, U.K., Greece, and Germany. The total budget of the project is Euro 1,338,321.49

5) Representative and coordinator of Helwan University in the **"Advanced Training and life Long learning Program in Applied Health Sciences (AtlHeal)"**, Project number 543889-TEMPUS-1-2013-1-SE-TEMPUS-JPHES. It started Dec. 2013 and ended on Dec. 2017. The European partners are from Sweden, Italy, Slovakia, and Czech Republic. The total budget of the project is Euro 870,000

6) Representative and coordinator of Sinai University in the **"Exporting Master Program in Enterprise Systems Engineering to Jordan, Syria, Tunisia, and Egypt (MSC.ESE).** Project number: 530260-TEMPUS-1-2012-1-DE-TEMPUS-JPCR. It started Dec. 2012 and ended on Oct. 2017. The European partners are from Sweden, Germany, Spain, and Portugal. The total budget of the project is Euro 1.001.639,48.

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 will end 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 representative in an EU funded project for mobility. The project is Erasmus Mundus (FFEEBB) with a total budget of about 3 million Euros. This project started 2009 and ended in 2013.

4. HU representative in an EU funded project for mobility. The project is Erasmus Mundus (FFEEBB-2) with a total budget of about 4 million Euros. This project started 2011 and ended in 2014.

5- HU coordinator and representative in a UNDP funded project for QA in the Arab universities during 2002-2007 with a total budget of about $2 million.

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6- HU representative in a FORD foundation funded project for QA in some selected higher education institutes in the Arab Countries during 2011 – 2013 with a total budget of about $0.9 million.

**7-** Originator and head of the steering committee of the project "Criteria Authentication of Digital Quranic Products" since 2015 till 2018 (funded by Saudi Arabia). Total budget of about $ 200000.

8- Representative and coordinator of Sinai University in Erasmus + funded project (EU). Project title is “**ICU-Knowledge Triangle, Innovation: Reinforcing of Education- Research E-Health & Medical Links (ICU-RERE)”.** Project number: 609506-EPP-1-2019-1-SE-EPPKA2-CBHE-JP. It started on Dec. 2019 and still running. The European partners are from Sweden, Italy, Austria, and Estonia. The total budget of the project is 835 345,00 €.

**VIII) Computer Consultations for Governmental Agencies**

I served as a part-time computer consultant and software developer for many places in Egypt (1970 – 1974 and 2000-now) and in Saudi Arabia (1974 - 1999). I shall list here some of 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, (1993-1996). 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.

2) Selected as an associate editor for the proceedings of the Annual Pittsburgh Conference on Modeling and Simulation, University of Pittsburgh, Pittsburgh, USA.

3) Selected as an **invited speaker** 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**, Quatar, 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.

10) On the Editorial board of the **"**[**Egyptian Computer Science Journal - ECS**](http://academic.research.microsoft.com/Journal/824.aspx)**J" since 2000 till now**

**11)** On the Editorial board of the **"Business Process Management" international journal since 2004 till now.**

**12)** On the Advisory board of the "King Saud University" Journal – Computer and Information Sciences Division, since 2009.

13) On the Editorial board of the **"SCIREA Journal of Information Science and Systems Science" international journal since 2018 till now.**

14) On the Editorial board of the **"SciFed Journal of Artificial Intelligence” international journal since 2018 till now.**

15) Reviewer in many international journals and conferences among them journals published by: **IEEE, ACM, Springer, and Elsevier**.

**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 2 (with others) 2004

7) Best paper award 19th IEEE Symposium on Computers and Communications 2004

8) A medal and certificate of excellence from the Faculty of Engineering, Cairo University, 2017.

9) A medal of recognition from the Egyptian Air Defense Forces, 2018.

**XI) Publications**

More than 170 papers are published in different international and national journals and conferences. In addition to this, eight textbooks have been authored. Several technical reports were submitted in addition to many essays in newspapers and magazines and TV and broadcast programs. The major areas of my publications are as follows:

1) Computer Applications in Islamic Studies.

2) Arabization and Arabic literature.

3) Medical and Bio Informatics

4) Conceptual Representation and e-learning

5) Software Engineering

6) Pattern Recognition and Digital Image Processing

7) Databases, Data Warehousing, Expert Systems, and Data Mining.

8) Mathematical Software.

9) Computer-Controlled Irrigation

10) Programming Languages

11) Miscellaneous

As a sample, a partial list of the research publications in the first area follows.

* 1. **Computer Applications in Islamic Studies - Papers**

1) Sharaf Eldin, A., "A Statistical Study of the Hadith Chains", an internal report, ISSR, Cairo University, 1971

2) Sharaf Eldin, A., "On the Storage and Retrieval of the Holy Quran in Ottmanic Drawing", The 9th. NCC, 1986 (in Arabic)

3) Sharaf Eldin,A. "On the use of computers for the Storage and Retrieval of the Sayings of Prophets : 1. The Hadith Database, 2. Application of AI Techniques", (In Arabic). The 11th. National Computer Conference (NCC) Vol. 2 pp., 753-761, March 4-7, 1989.

4) Sharaf Eldin, A. and M. Elshamlan "Pictorial Representation of Hadith Chains", 12 th., NCC, 21-24 Oct., 1990, pp. 723-734.

5) Sharaf Eldin, A. " Informatics in the Holly Quran and Sunna", 12th. NCC, 21-24 Oct., 1990, pp. 752-756, (In Arabic).

6) 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).

7) Sharaf Eldin, A. "Hadith Data Base", Proceedings of the International Center for Sunna and Seera, Quatar, 1990 (Invited Paper, in Arabic).

8) Sharaf Eldin, A. "Computers in Hadith", Proceedings of the 2 nd. Arabization Symposium, King Saud University, Riyadh, 1994. (Invited Paper, in Arabic).

9) 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, Dharan, Saudi Arabia, pp. 57-67.

10) 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).

11) Sharaf Eldin, A. “ Computers and Hadith Studies”, SSRC Journal, Qatar University, Vol. 8, 1995, pp.253-292 (in Arabic).

12) 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).

13) Sharaf Eldin, A., S. Abo Seda, and H. Abolhamayil, "Developing a Computer System to Search for Numerical Miracles in the Holy Quran", ECSJ, 2010 (in Arabic)

14) Sharaf Eldin, A., S. Abo Seda, and H. Abolhamayil, "Numerical Miracles of the Holy Quran: Computing Systems", ECSJ, 2010 (in Arabic)

15) Sharaf Eldin, A., "Auditing of Software Dealing with the Text of the Holy Qur'an", NOORIC International Conference, Taiba University, Madinah, Saudi Arabia, Nov. 2013, (Invited Paper, in Arabic)

16) Sharaf Eldin, A., "Authentication of Digital Quranic Systems", Keynote paper, The First International Conference for :Authentication of Digital Quran", Cairo, 2015

17) Shaimaa Salah Abbas, Ahmed Sharaf Eldin, Adel Elsayed, “THE EFFECT OF CONCEPT MAPPING AND MIND MAPPING UTILIZATION ON STUDENTS’ UNDERSTANDING LEVEL: AN EMPIRICAL STUDY”, Concept Mapping: Renewing Learning and Thinking Proc. of the Eighth Int. Conference on Concept Mapping Medellín, Colombia 2018

18) Shaimaa Salah Abbas, [Ahmed Sharaf Eldin](https://www.semanticscholar.org/author/Ahmed-Sharaf-Eldin/3189879), [Adel Elsayed](https://www.semanticscholar.org/author/Adel-Elsayed/144332310), "A PROPOSED SYSTEM FOR CONCEPTUAL REPRESENTATION", Concept Mapping: Renewing Learning and Thinking Proc. of the Eighth Int. Conference on Concept Mapping Medellín, Colombia 2018

**11.2 Computer Applications in Islamic Studies – Theses**

**1- الائتلاف الصوتي في القرآن الكريم (دراسة لغوية حاسوبية( - رسالة دكتوراة – كلية دار العلوم – جامعة القاهرة – 2018**

**2- التمثيل المفاهيمي للقرآن الكريم** – فريق بحثي – تم رسالة دكتوراة لإحدى الطالبات في **كلية الحاسبات و المعلومات – جامعة حلوان - 2019**

**3**- **بناء نظام حاسوبي لدراسة الإعجاز العددي في القرآن الكريم – رسالة ماجستير قدمت إلى كلية الحاسبات و المعلومات – جامعة حلوان – 2011 وحصلت على جائزة من الأزهر الشريف.**

**XII) Membership of Scientific and Professional Societies**

1- The Egyptian Engineering Syndicate, Egypt

2- The IEEE, USA

3- The Pattern Recognition Society, USA

4- The American Information Systems Society (AIS)

5- The Society of Digital Information and Wireless Communications (SDIWC)