

## Curriculum Vitae

- 1- **Full Name:** *Nabeel Hashem Kaghed*
- 2- **Sur Name:** *Al-A'araji*
- 3- **Date and Place of Birth:** *1954- Babylon*
- 4- **Nationality:** *Iraqi*
- 5- **Marital Status:** *Married*
- 6- **Number of Children:** *Six*
- 7- **Language Experienced:** *English*
- 8- **Email :** [nhkaghed@yahoo.com](mailto:nhkaghed@yahoo.com)



9- **Scientific Qualifications:**

- Ph.D. (Mathematics), University of Wales, Aberystwyth, (1988).
- M. Sc., University of Baghdad, (1978).
- B.Sc. ,Al-Mustansiryah University, (1976).

10- **Scientific Degrees:**

- Professor 1997.
- Assistant Professor 1991.
- Lecturer, 1984.
- Assistant Lecturer, 1979.

11-**Academy Honorable Membership**

- Honorable Professor of International Ecoenergy Academy, Baku, Azerbaijan Republic.
- Appointed as a member of board of Science of Iranian Elite Academy, Republic Islamic of Iran.
- Journal of Babylon University, Pure and Applied Sciences, University of Babylon, Editor-in-Chief ,2005.
- Appointed as a representative of member nation for World Culture Summit Forum on 20/5/2009.
- Associate Editors of International Journal of Advancements in Computing Technology(IJACT),Korea,2010.
- Advisor Member of Jordan International Journal for quality Assurance in Higher Education ,2014.

- Education

## **12-Scientific and Management Experiences**

- Culture attaché of the College of Economics and Administration, Salahuddin University (1990-1991).
- Assistant of head of Computer Science Department, College of Science, University of Babylon (1991-1993).
- Head of Computer Science Department. (1993-2005).
- Chancellor of the University of Babylon (2005 -2013).
- Advisor of higher education minister (2013-2014).
- Head of supervision and scientific evaluation apparatus(2014 to now).

## **13-Training Courses**

- 1- Course in English Language, The Central for Bilingual and Language Education, The University College of Wales , British , August-September,1985
- 2- Course in Teaching and Learning Development , Salahuddin University, June,1990.
- 3- Course in Global Positioning System (GPS), Oklahoma State University/ Environmental Systems Research Institute, Amman June, 2004.
- 4- Course in Remote Sensing, Oklahoma State University/ Environmental Systems Research Institute, Amman July, 2004.
- 5- Course in Geographical Information System (GIS), Oklahoma State University/ Environmental Systems Research Institute, Amman August, 2004.
- 6-Iraq Professional Development Programme, The University of Nottingham, British , February- March,2008.
- 7-Academic Paper-Writing Workshop, Organized by the British Council, Bahrain , May,2008.
- 8-Stocktaking Workshop, Organized by the British Council, Bahrain , May ,2008.
- 9-Workshop - "How do different quality cultures within higher education Institutions contribute to QA? How to encourage the more positive ones?", Abu Dhabi, April 2009.
- 10-Workshop - Challenges for newly developed agencies, Abu Dhabi, April 2009.

- 11- Workshop - Links between Self Assessment and Strategic Planning, Abu Dhabi, April 2009.
- 12- Workshop - Different approaches to QA: between programmers and institutions, Abu Dhabi, April 2009.
- 13-Sub-regional workshop on Hands –on Training on science ,technology and innovation indicators " Data collection and reporting according to frascati manual ,Damascus, Syrian Arab Republic, September,2010 .
- 14-BM TRADA TRAINING:
  - General Introduction To Quality Environment ,Safety And Product Standardization Program .
  - ISO 9001:2008 Awareness Seminar
  - ISO 9001:2008 Internal Audit Training ,Certified BM TRADA, October – November,2010.
- 15- Training workshop on Quality Systems and Collaborative Programmes ,Certified by Liverpool John Moores University, Liverpool ,British,April,2011.
- 16- Training workshop on Standards of Quality Assurance and Accreditation in Higher Education ,Erbil,Iraq,January,2012.
- 17-UK-Quality Assurance study tour in Higher Education,London,UK,March,2012

#### **14- International Meetings**

- 1-The 22<sup>nd</sup> International Conference of Mathematical Statistics, University College of Wales, U.K., 1986.
- 2- The 23<sup>rd</sup> International Conference of Mathematical Statistics, University College of Wales, U.K., 1987.
- 3- The 24<sup>th</sup> International Conference of Mathematical Statistics, University College of Wales, U.K., 1988.
- 4- The 15<sup>th</sup> International Congress for Statistics, Computer Science, Social and Demographic research, Ain\_Shames University, Egypt, 17-22 March, 1990.
- 5- The International Congress of Mathematicians, Kyoto University, Japan, August, 1990.
- 6- The 2<sup>nd</sup> Conference of Mathematicians, Mu'tah University, Jordan , 11-14 September, 1994.

- 7- The 3<sup>rd</sup> Symposium on Scientific Research and Technological Development outlook in Arab World, Riyadh, Kingdom of Saudi Arabia, April, 2004.
- 8-The 3<sup>rd</sup> International Conference on Systems, Signals & Device, Volume III ,Tunisia, 21-24 March, 2005.
- 9-The 5<sup>th</sup> International Symposium, University of Patras, Conference Center, Jordan, 19-21 July, 2006.
- 10-The 4<sup>th</sup> International Conference: Science of Electronic, Technologies of Information and Telecommunications , It is supported by IEEE France, Tunisia, September, 2006.
- 11-International Visitor Leader Program, University Administration , , Washington,USA,February 3-14,2009.
- 12-The 10<sup>th</sup> Biennial Conference, International Network For Quality Assurance Agencies In Higher Education ,Abu Dhabi,30 March to 2 April ,2009.
- 13- University of Cultures and Arts World Symposium UCAWE international Symposium yeong-Wol City,Korea,May ,17-24 , 2009.
- 14-The General Rapporteur of Experts Committee of 12<sup>th</sup> Conference of Higher Education Ministers in the Arab Homeland , Beirut , Lebanon 6-10 December ,2009.
- 15- The 3<sup>rd</sup> Information Technology (IT) Conference at Technische University Berlin, Berlin, September, 2011.

### **15- National Meetings**

- 1- The 3<sup>rd</sup> Scientific Conference of Iraqi Statistical Association, 21-22 February, 1990.
- 2- The 1<sup>st</sup> Scientific Conference of the University of Babylon, April, 1995.
- 3-The 2<sup>nd</sup> Scientific Conference of the University of Babylon, April, 1996.
- 4- The 3<sup>rd</sup> Scientific Conference of the University of Babylon, April, 1997.
- 5- The 4<sup>th</sup> Scientific Conference of the University of Babylon, April, 1998.
- 6-The 5<sup>th</sup> Scientific Conference of the University of Babylon, April, 1999.
- 7-The 6<sup>th</sup> Scientific Conference of the University of Babylon, April, 2000.
- 8- The 7<sup>th</sup> Scientific Conference of the University of Babylon, April, 2001.

9- The 8<sup>th</sup> Scientific Conference of the University of Babylon, April, 2002.

**16- Teaching Visitor**

- *Al-Khartoum University and the University of Science and Technology for teaching Artificial Intelligence, Sudan, 1994.*

**17- Experiences:**

- Under-graduate teaching: discrete structures, mathematics, artificial intelligence, computer programming, artificial intelligence applications, differential equations, decision theory, mathematical statistics, experimental design, sampling, applied statistics, operations research, linear algebra, matrices, mathematical analysis.
- Post-graduate teaching: artificial intelligence, neural networks , expert systems, fuzzy set theory, mathematical statistics, decision theory, partial differential equations, applied statistics, computer applications, image processing, linear models.
- Research interest topics: image processing, speech analysis, genetic algorithms, neural networks, expert systems, information hiding, crypto-analysis, mathematical statistics, decision theory, asymptotic expansion theory.

**18- Present Occupation:**

- Head of Supervision and Scientific Evaluation Apparatus.

**19-Published Papers:**

1-On Sequential Rectangular Design with Latin – Square subdivisions. J. Mosul University, No. 2, 1983.

2-On Sequential Multiple-Design Multivariate Linear Model. J. Mosul University,

No. 4, 1984.

- 3-The Distribution of a general non – central quadratic form in multivariate normal varieties. J. Babylon University, vol. 1, No.3, 1996.
- 4-An Optimal Asymptotic Bayes Sequential tests for comparing two normal means. J. Kufa University, vol. 1 , No . 1,1997.
- 5-On sequential Mahalanobis  $D^2$  – test .J. Babylon University, vol. 2, No. 3, 1997.
- 6-A proposed method for expanding RSA cipher system. J. Babylon University , vol. 4, No. 3, 1999.
- 7- A proposed RSA cipher system depending on false virma numbers in the filed of complex integer numbers. J. Babylon University, vol. 4, No. 3, 1999.
- 8-A proposed Mine Detection method using pattern recognition approach. The 5<sup>th</sup> Scientific Conference of the University of Babylon, April, 1999.
- 9-A comparative study for data – comparison techniques. The 5<sup>th</sup> Scientific Conference of the University of Babylon, April ,1999
- 10-A proposed algorithm based on wavelet transform for speech recognition. AMSE Journal, France, No. 01 – 036 (IB), 2002.
- 11-Speech recognition using a proposed indexing tree algorithm based wavelet packet transform. AMSE Journal ,France, No. 01 – 035(IB) ,2002.
- 12- The use of neural network for coding and decoding the transmitted data. The 5<sup>th</sup> Scientific Conference of the University of Babylon, April, 1999.
- 13- Design and implementation algorithm to obtain  $(2N)$  key sequences. The 5<sup>th</sup> Scientific Conference of the University of Babylon, April ,1999.
- 14-The distribution of the first order moving averages model with normal errors. The 5<sup>th</sup> Scientific Conference of the University of Babylon, April, 1999.
- 15-A comparative study for Hasted and Brous methods for RSA cipher system. The 5<sup>th</sup> Scientific Conference of the University of Babylon, April, 1999.
- 16-The general formula of rth moment for MA(Q) model. The 6<sup>th</sup> Scientific Conference of the University of Babylon, April, 2000.
- 17-Design and Implementation of Speaker Identification System using Neural Network. The 6<sup>th</sup> Scientific Conference of the University of Babylon, April , 2000.
- 18-Asymptotic Bayes Sequential Tests for comparing two Normal Means in a multi – hypotheses case. J. Babylon University, vol. 6, No. 3, 2001.

- 19-An Asymptotic Bayes sequential tests for comparing two normal means in k-hypotheses problems. J. Babylon University, vol. 6 , No. 3 , 2001 .
- 20-Design and implementation an expert system using fuzzy logic for suggesting agriculture planning. J. Al- Qadisia University, vol. 6, No. 4, 2001.
- 21-An Optimal Asymptotic Bayes Sequential test of a certain class of hypotheses. The 15<sup>th</sup> International Congress for Statistics, Computer Science, Social and Demographic research, Egypt,17-22 March, 1990.
- 22-An Asymptotically Bayes Sequential testing regions for a specific multi – hypotheses problem. The 2<sup>nd</sup> Conference of Mathematicians, Mu'tah University, Jordan, 11-14 September, 1994.
- 23- An Optimal Asymptotic Bayes Sequential tests for comparing two normal means – known variances. The 3<sup>rd</sup> Scientific Conference of Iraqi Statistical Association ,21-22 February, 1990.
- 24-On the Asymptotic Shape of Bayesian sequential tests of a k-hypotheses problem for Koopman- Dormios distribution. J. Babylon University, vol. 4, No.3, 1999.
- 25-The use of Sequential Bayes Techniques in testing statistical hypotheses. J. Babylon University, vol. 4, No. 3, 1999.
- 26-The use of hybrid LVQ3 for Speaker Recognition problems. J.Babylon University, 2005.
- 27-Speaker Recognition using Neural Network and Wavelet Transform. J.Kufa University, 2005.
- 28-Design and Implementation of Classification System for Satellite Images based on Soft Computing Techniques. Remote Sensing: New Trends &Applications-III, ICTIA558, Jordan, April, 2005.
- 29-A Proposed Speech Scrambling System Based on Wavelet Transform and Permutation. Communication and Signal Processing, The 3<sup>rd</sup> International Conference on Systems, Signals &Devices, vol. III, Tunisia, 21-24 March,2005.
- 30-Design and Evaluation of Transform-Based Speech Scramblers using different Wavelet Transformations. The 5<sup>th</sup> International Symposium, University of Patras ,Conference Center, Jordan, 19-21 July ,2006.
- 31-Evaluation of a Developed Levenson Durbin Algorithm used in CELP Coder. The 5<sup>th</sup> International Symposium, University of Patras,Confrence Center , Jordan, 19-21 July ,2006.

32-Generating rules from Trained Neural Network using FCM for satellite Images Classification. The 4<sup>th</sup> International Conference: Science of Electronic, Technologies of Information and Telecommunications, It is supported by IEEE France, Tunisia, September, 2006.

33- Novel Perspective for Combining Fuzzy Logic with Wavelets and neural Networks .Babylon Journal of Humanities ,Collage of Education,266,2007.

34-Speech Scrambling System Based on Coefficients Wavelet Transform. Babylon Journal of Humanities ,Collage of Education,2,2007.

35-Obstacle Avoidance by Using Evolutionary Mobile Robot, Babylon Journal of Humanities ,Collage of Education,2,2007.

36-Quality Assurance Strategies of Higher Education in Iraq and Kurdistan: A case Study ,Routledge Taylor & Francis Group ,Informa Ltd Registered in England and Walse,Vol.15,No.1,april 2009.

37-Design a hybrid fuzzy clustering system for MRI medical images, Advances in Information Sciences and Service Sciences,Korea,2011.

38-On a tumor brain image classification system , Advances in Information Sciences and Service Sciences,Korea,2011.

39-On an Actual Teaching Process at Iraqi Universities, Chalanges, 1<sup>st</sup> Conference for Scientific Research Quality at the Iraqi Universities,2011.

40-The effects of the accreditation program according to the ISO(2009\2008)at the University of Babylon, Proceedings of The second International Arab Conference on quality Assurance in Higher Education, IACQ, Gulf University, Kingdom of Bahrain, April,2012.

41-Quality in Higher Education,book, Cultural Alsadiq Company,1<sup>st</sup> Edition, Babylon,Iraq,2013

42-How to achieve good teaching quality four nursing colleges, Proceedings of The Fifth International Arab Conference on quality Assurance in Higher Education,Tunis,2013.

#### **20-Post-Graduate Supervision:**

- **Ph. D. Thesis**

1- A study of some probabilistic features for normal and non- normal moving averages models using simulation.

2- Mathematical analysis for RSA cipher systems and suggesting another cipher system.



- 3-Learning to control autonomous robot using distributed genetic algorithm.
- 4-A new approach for fuzzy clustering of medical images
- 5- *Gene Knowledge Discovery using novel neural Network in Bioinformatics for Cancer Disease.*
- 6-Design and implementation of hybrid global optimization system for protine tertiary structure.
- 7-Disease discovering using protine detection.
- 8-Recommendation System of medical applications.

- **M.Sc. Thesis**

- 1- English character recognition using neural networks.
- 2- Design and implementation a knowledge base system using fuzzy logic for some agriculture knowledge fields.
- 3- Path planning using integrating system in library environment.
- 4- Speaker recognition using multi- layer neural network.
- 5- Design a morphological image processing system.
- 6- Digital image classification.
- 7- English speech synthesis system.
- 8- Design and implementation of A.N.NS in linear block code.
- 9- Comparison some of crypto\_analysis methods of stream cipher using know – plain text attack.
- 10- Mines detection and recognition using neural networks.
- 11- Document retrieval using genetic algorithm.
- 12- Parallel structure for image compression using neural networks.
- 13- Efficient approach for test pattern generation in sequential circuits.
- 14- Printed Arabic character recognition system.
- 15- Speech recognition using wavelet – transform.
- 16- Design a system for diagnosing and treating medical digital images.
- 17- Design a system for recognizing flair images.
- 18- Isolated English handwritten character recognition using neural network.
- 19- Sound recognition of rocket engines using wavelet transform.
- 20- Design and implementation of a computer virus.
- 21- Speaker recognition using learning vector quantization neural network.
- 22- Vocal user interface design for data – base system.

- 23- Color image compression using wavelet transform.
- 24- The connected speech recognition using linear predicate coding.
- 25- On color image steganography system.
- 26- On a neuro – wavelets image classification system.
- 27- Design and implementation an expert system shell for diagnosing some abdominal diseases.
- 28- The use of asymptotic Bayes sequential tests for multi – hypotheses problem.
- 29- On multi wavelet – neural networks speaker recognition system.
- 30- A proposed high quality speech coding based on analysis by synthesis technique.
- 31- A proposed speech scrambling method using a wavelet transform.
- 32- The effect of computer in developing the artistic skill in the subject of artistic \_construction.
- 33-Multimedia image compression.
- 34-Extracting rules from data base using soft computing.
- 35-The use of soft computing to classify object for air photos and satellite images.
- 36-Design and implementation of GIS for urban planning.
- 37-Using intelligent agent for knowledge acquisition.
- 38-On image classification using soft computing techniques.
- 39-Bayesian neural network for image classification.
- 40-Image classification using wavelet\_neural network.
- 41-Medical image classification using Kohonen neural network.
- 42-Speech in image steganography.