CURRICULUM VITAE

NAME: Prof. Dr.   ALI ABDULHAFIDH IBRAHIM AL-SHAIKHLI

NATIONALITY: IRAQI

DATE &PLACE OF BIRTH   MAY 9th , 1962, BAGHDAD, IRAQ

Tel: +(964)7702538614

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Specialization: Artificial Intelligence, Bioinformatics, Multivariate Analysis, Pattern

Recognition, Biometric , and Wireless Network

EDUCATION:

PhD   Department of Statistics, College of Administration and Economy, University

of Baghdad , Baghdad, Iraq.

PhD thesis title: "Prediction of Secondary Structure of Protein Using Chuo-Fasman, Homology and Neural Network Methods

Major: Statistics: 2004

Advisor: *Prof.* Dr. Hathama Rzuki Hassan

MSc   Department of Statistics, College Administration and Economy, University of

Mustansiriya, Baghdad, Iraq.

MSc thesis title: Solving the missing data in corresponding analysis.

Major: Statistics. 1990

Advisor: Dr. Fadil Alrubyai

BSc   Department of Statistics, College Administration and Economy, University of

        Al-Mustansiriya, Baghdad, Iraq.

POSITIONS, TEACHING AND RESEARCH EXPERIENCE:

- Professor , Department of Mathematical and applied computer, College of Science, Al-Nahrain University, Jadriyah, Baghdad, Iraq (2013).
- Assistant Professor, (2002).
- Lecture, (1996).
- Assistant Lecture, (1993).

   Taught:

   - Advance Bioinformatics for graduate course
   - Bioinformatics for undergraduate course
   - Advance Biostatistics for graduate course
   - Artificial Intelligence for graduate course
   - Artificial Intelligence for undergraduate course
   - Probability and statistics for undergraduate course
   - Programming (Visual Basic) for under graduate course
   - Simulation for graduate course
   - Time sreies

- Lecturer, Department of Mechanical engineering , College of Engineering, Tikrit University, Tikrit, Iraq (1996-2002).

Taught:

- Probability and statistics for undergraduate course

- Programming for under graduate course

- Assistant Lecturer, Department of Mechanical engineering of, College of Engineering, Tikrit University, Tikrit, Iraq (1993-1996).

- Probability and statistics for undergraduate course
- AUTOCAD for undergraduate course
- Programming for under graduate.

SKILLS & TECHNIQUES

- **Software Proficiency**

    Visual BASIC

    ACAD

    Matlab

    SPSS

    Mintab

Training courses completed

Artificial Intelligence

Bioinformatics with Python

Cisco

Machine Learning

Microarray

Next Generation Sequencing

PUBLONS ACADEMY PEER REVIEWER

Time Series Analysis and Forecasting.

PUBLICATIONS:

1. Using changing averages in creating price trends of stocks dealt in Baghdad Stock Market   published in Development of Mesopotamia Magazine issue No;43 /1994 .

2. Using factorial analysis style to conduct changes that verify the validity of dried milk for human consumption (published in The Scientific Magazine of College of Engineering in Tikrit University Vol. 3   issue No;2 /1996)

3. Using cluster analysis in structural form in different samples of dried milk (published in The Scientific Magazine of Tikrit University/engineering sciences sector   issue No;716 /2000)

4. Using multi-dimension standards to analyze the chemical structure in samples of dried milk (published in the volume of the 12th conference of the Iraqi Association of Statics Sciences in 2000)

5. Using database in determining restriction sites and drawing of avidin gene cDNA (joint research published in 41th Biotechnology Sciences Conference in Damascus University / Syria in 2001)

6. Using of characterizing function pattern in chemical classification of dried milk samples to verify its identity to the Iraqi Standards of Qualifications through designing and implementing a program in QBASIC Language (published in The Economical and Administration Sciences Magazine of College of Economical and Administration in Baghdad University 9th volume issue No;29 /2002)

7. using of protein Database and Cluster   Analysis to Compare Protein Identical Region for Leader Peptidase and Determine the Degree of Genetic Relationship between Bacterial Strains, Magazine of Administration and Economical in Al-Mustansurea University, No. 42, 1-11-2002.

8. Use of a multi-dimensional scale and a function model to load chemical structures For dry-dried models, University of Al-Nahrain University, Vol.11, No. 1,April ,2008 (ARABIC).

9. Using a multidimensional and multivariate analysis method to analyze a set of pottery vessels discovered in the pre-Christmas period, University of Al-Nahrain University, Vol. 11, No. 2, August 2008 (ARABIC).

10. Classification of a number of organisms using multidimensional integrator and cluster loading of the polymerization Multiple peptides of lactate dehydrogenase, , University of Al-Nahrain University, Vol.11,No. 3, December, 2008 (ARABIC).

11. Design a fingerprint database pattern recognition system via cluster analysis method (joint research published in Iraqi Biotechnology Sciences Magazine volume 10 second issue in 2011)

12. Bioinformatics (joint book published by Al-Nahrain University in Books House issue No; 1445 in 2012) , (ARABIC).

13. Using of Two Analyzing Methods Multidimensional Scaling and Hierarchical Cluster for Pattern Recognition via Data Mining , **International Journal of Computer Science Engineering and Technology** (IJCSET)`, **Volume 3 Issue 1- January 2013.**

14. Design And Implementation Iris Recognition System Using Texture Analysis, Nahrain University College Of Engineering journal, **Vol.16 No. 1, 2013 pp98-101**

15. Using Hierarchical Cluster and Factor Analysis to Classify and built a phylogenetic Tree Species of ND1 Mitochondria, Journal of Al-Nahrain University-Science, **Vol.17(1), March, 2014,, pp. 114-122.**

16. Design and Implementation of Iris Pattern Recognition Using Wireless Network System, **Journal of Computer and Communications, 2016, 4, 15-21.**

17. Using Neural Networks to Predict Secondary Structure for Protein Folding, **Journal of Computer and Communications, 2017, 5, 1-8.**

18. C-reactive protein as a marker for cancer and poising thyroid gland, *Engineering & Technology Journal*, Vol. 35, Part B. No. 2, 2017.

19. **C-Reactive Protein as a Marker in the Iraq Patients with Poisoning Thyroid Gland Disease,** *Engineering and Technology Journal,* Vol. 36, Part B, No. 1, 2018

20. **Design and Implementation of Fingerprint Identification System Based on KNN Neural Network, Journal of Computer and Communications, 2018, 6, 1-18.**

21. Sequence and Structure Analysis of CRP of Lung and Breast Cancer Using Bioinformatics Tools and Techniques, *BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA*, March 2018, Vol. **15**(1), p. 163-174.

22. THE EFFECT OF Z-SCORE STANDARDIZATION ON BINARY INPUT DUE THE SPEED OF LEARNING IN BACK-PROPAGATION NEURAL NETWORK, Iraqi Journal of Information and Communications Technology(IJICT), Vol. 1, Issue 3, November 2018.

23. Analysis of sequence and structure for beta-2-microglobulin in patients with thyroid cancer using bioinformatics tools International Journal of Research in Pharmaceutical Sciences, 2019, 10 (1), 394-401.

24. Functional Analysis of Beta 2 Microglobulin Protein in Patients with Prostate Cancer Using Bioinformatics Methods Indian Journal of Public Health Research & Development, 2019, 10 (3), 519-523.

25. Beta-2-Microglobulin as a Marker in Patients with Thyroid Cancer, THE IRAQI POSTGRADUATE MEDICAL JOURNAL, VOL. 18, No.1, 2019.

26. C-reactive Protein as Both Specific and Non-Specific Marker for Toxic Thyroid Gland and Breast Cancer Diseases in Iraqi Women, Third National Feminist Scientific Conference, 2019.

27. CLASSIFICATION NUMBER OF ORGANISMS USING CLUSTER ANALYSIS OF THE PEPTIDE CHAINS MULTIPLE CHYMOTRYPSIN LACTATE DEHYDROGENASE, Biochem. Cell. Arch. Vol. 19, No. 2, pp. 4425-4429, 2019.

28. Using Artificial Intelligence System for Pattern IdentiϨication Based on Features Extracted from Gel Electrophoresis Images, International Journal of Research in Pharmaceutical Sciences, 11(2), **2020.**

Patents:

1. The patent in 2018, which entitled " The early diagnosis of cancer disease according to the point mutation in the first Exon of CRP gene".

2. The patent in 2019, which entitled " The Early Diagnosis of Thyroid Cancer and Prostate Cancer According to The Point Mutation in The First Exon of Beta-2 Microglobulin Gene".

Master theses and doctoral dissertation which he supervised

No.	Title	Field	Degree	Year	Department/ College/ University
1.	A Neuro-Based License Plate Recognition Method	Image Recognition	Master	2009	Computer Engineering/ College of Engineering Department/ Al-Nahrain University
2.	DESIGN AND IMPLEMENTATION OF AN IRIS RECOGNTION	Image Recognition	Master	2009	Computer Engineering Department/ College of Engineering/ Al-Nahrain University
3.	INVESTIGATION OF METHANE OXIDIZERS COMMUNITY IN SOIL BY USING DENATURANT GRADIENT GEL ELECTROPHORESIS	Bioinformatics	Master	2013	Biotechnology Department / College of Science / Al-Nahrain University
4.	DESIGN AND IMPLEMENTATION OF IRIS PATTERN RECOGNITION BASED ON WIRELESS NETWORK SYSTEM	PATTERN RECOGNITION & WIRELESS NETWORK	Master	2016	Department Of Information and Communication Engineering / College of Information Engineering / Al-Nahrain University
5	DESIGN AND IMPLEMENTATION IMAGE COMPRESS AND DECOMPRESS WIRELESS NETWORK SYSTEM	PATTERN RECOGNITION & WIRELESS NETWORK	Master	2016	Department of Mathematics and computer Applications/ College of Science/ Al-Nahrain University

6	Using of Convolution Neural Networks to Analysis Secondary Structure for Protein Folding	Neural Networks & Bioinformatics	Master	2017	Department Of Information and Communication Engineering / College of Information Engineering / Al-Nahrain University
7	Forecasting the Iraq Stock Exchange Index An applied study	Time Series	Master	2018	Banking Management Economics Department / College of Business Economics/ Al-Nahrain University
8	A study of the Features of CRP Using Bioinformatics programs	Bioinformatics	Master	2018	Division of Biotechnology / Department of Applied Sciences / University of Technology
9	Computational Analysis of Globulin Protein Function Using Bioinformatics Methods in Iraq Patients with Cancer	Bioinformatics	Master	2019	Division of Biotechnology / Department of Applied Sciences / University of Technology
10	Using of Genetic Algorithm to Predict of Electrical Power in Inraq	Genetic Algorithm	Master	2019	Economics of Investment and Resources Department / College of Business Economics / Al-Nahrain University
11	Design and Implementation of Identification System for Forensic DNA Sequences	Forensic	Doctor	2020	College of Information Engineering / Al-Nahrain University