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Google scholar: <https://scholar.google.com/citations?hl=ar&user=PmIEulUAAAAJ>

Research Gate: [https://www.researchgate.net/profile/Luma\\_Tawfiq2/contributions](https://www.researchgate.net/profile/Luma_Tawfiq2/contributions)

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Publons profile: <https://publons.com/author/1195907/luma-naji-mohammed-tawfiq#profile>

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<http://baheth.clubmid.org/members/l-n2004/>

Mobile Phone No.: 07904508953

Academic degree: Ph.D.

Academic Rank: Professor

Country: Iraq

General Specialization: Mathematics

Field of Specialization: Applied Mathematics – Parallel Processing – Neural Networks

Research Fields: Artificial Neural Networks: Theory and Applications, Differential Equation, Numerical Analysis , Numerical Optimization

Qualification: Ph.D. in Applied Mathematics

Date of Obtaining The scientific Title: 14-6-2006

**EDUCATION:**

- 1986 – 1990 Bachelor degree in Mathematics Graduated from University of Baghdad – Baghdad – Iraq.
- 1992 – 1994 Master degree of Science in Mathematics Graduated from University of Baghdad – Baghdad – Iraq.
- 2002 – 2004 Doctor of Philosophy in Mathematics Graduated from University of Baghdad – Baghdad – Iraq.

**Skills**

- Using Advanced Methods in Teaching.
- Highly motivated.
- Ability to adapt to new environments.
- High ability in learning any computer language or software.
- I have very good experience in Design and training ANN
- I have very good experience in Simulink
- I have very good experience in Adaptive data
- I have very good experience in data processing

**Research Interests**

**Applied Mathematics, Neural Network, Numerical Analysis, Differential Equation, Fuzzy Set and Theory, Image Processing, Optimization Techniques.**

Number of Publications Researches in Iraq: 96

Number of Publication Researches in International Journal: 77

Dissertations supervised: 47

Number of Conferences in which she participated in Iraq: 96

International Conferences: 9

Number of Letters of Appreciation and Certificates of Appreciation: 145

Awards she Got: 3

Books Authored In Arabic:1

Books Composed or Compiled: 16

**Professional Work Experience:**

- I am a referee of some international journals such like  
Journal of Physical Science and Environmental Studies- Merit Research  
Journal of Medicine and Medical Sciences- African Journal of  
Engineering Research- etc.
- Editorial Board in Ibn Al-Haitham Journal for Pure & Applied  
Sciences
- Membership of Consulting Science Bureau
- Membership in scientific consultations office
- Membership Committee of arguments MSc and PhD thesis
- Editorial Board in International Journal of Innovations in Scientific  
Engineering
- Editorial Board in International Journal of Research in Science And  
Technology
- Editorial Board in IJAAMM Journal
- Editorial Board in IRA Publish
- Editorial Board in Mathematics and Statistics Journal
- Editorial Board in Mathematical modeling and computing
- Editorial Board in IJRST: <http://www.ijrst.com/editorboard1.php>
- Editorial Board in Lawarence Press
- Editorial Board in IJMRET
- Editorial Board in ijr group
- Editorial Board in GJESR
- Editorial Board in JIAATS

- Editorial Board in IJRERD
- Editorial Board in EPH - International Journal of Mathematics and Statistics (ISSN: 2208-2212)
- Editorial Board in Scientific Research International: Journal of Mathematical Science And Application
- PhD theses Examiner: I am a major or member in many examiner of PhD theses for degree of doctor of Philosophy in mathematics in the college of science or college of education for pure science in many university in Iraq such Baghdad University, AL-Mustansirya and Al-Nahrain University.
- MSc theses Examiner: I am a major or member in many examiner of MSc theses for degree of MSc of science in mathematics in the college of science or college of education for pure science in many university in Iraq such Baghdad University , AL-Mustansirya and Al-Nahrain University.

### Teaching Experience (More than 25 years)

Teaching various theoretical and practical subjects;

### Courses Which You Teach

No.	Department	Subject	Year
1	Mathematics	Algebraic Geometry	1994-1995 & 1995-1996
2	Computer	Discrete structure	1995-1996 & 1996 -1997
3	Computer	Applied Mathematics	=
4	Mathematics	Calculus	=
5	Mathematics	Group Algebra	1997 - 1998
6	Mathematics	Mathematical	1998 - 1999
7	Mathematics	Numerical Analysis	1999 - 2000 & 2000 – 2001 & 2001 - 2002
8	Mathematics	Applied Mathematics	2004 – 2005 & 2005 – 2006 & 2006 – 2007 & 2007 – 2008 & 2008 – 2009 & 2009 – 2010 & 2010 – 2011 & 2011- 2012 & 2012-2013
9	Mathematics	Graph Theory	2013 – 2014

10	<b>Mathematics</b>	Computer science	2014 – 2015, 2015 – 2016, 2016-2017.
11	<b>Mathematics</b>	Applications in Linear Algebra	2017 – 2018
12	<b>Mathematics</b>	Applied Mathematics	2018 – 2019

## Training & Experiences:

### Member of:

- Attained and participated in several continuing educational course sponsored by Training center.
- Attained and participated in several continuing educational course sponsored by the Training center of the BrightTALK Developer.
- Member of the scientific committee of the
- Member of the Teaching committee of the

### Conferences Participated

No.	Conferences Title	Year	Place	Type of Participation
1	<b>First Science Conference of Al-Qadisiyah University - College of Computer Science &amp; Mathematics</b>	2008 august	Qadisiyah University - College of Computer Science & Mathematics	Researcher
2	Third Science Conference of Science College	2009 march	Baghdad University - College of Science	=
3	First Science Conference Iraqi – France in Science College University	14-18 / 11 / 2009	College of Science	=
4	Second Science Conference of Al-Qadisiyah University - College of Computer Science & Mathematics	16-18/ March 2010	Qadisiyah University - College of Computer Science & Mathematics	=
5	First Science Conference of Computer Science & Mathematics in Education Ibn Al-Haitham College	2002	Baghdad University – College of Education Ibn Al-Haitham	=
6	First Arabic Conference of Mathematics in Special Applied Science University	6-8 /10 2004	<b>Jordon – amman -Special Applied Science University</b>	=
7	First Science Conference of Mathematics Department student	4 / 5 / 2010	<b>Baghdad University – College of Education Ibn Al-Haitham</b>	preparative committee
8	Symposium about ANN	2010	=	Researcher
9	Symposium about the Importance of Mathematics in society	2009	=	=

10	Symposium about Applied Mathematics	2010	Baghdad University - College of Woman	partaken
11	Symposium about Modul of Algebra	2010	<b>Baghdad University – College of Education Ibn Al-Haitham</b>	=
12	Third Science Conference of Al-Qadisiyah University - College of Computer Science & Mathematics	19-20/4/2011	Qadisiyah University - College of Computer Science & Mathematics	Researcher
13	First International Conference of Mathematics and its Applications	1-3/3/2011	Al-Basra University - College of Science	=
14	Symposium about special type for Modul of Algebra	September 2011	University of Baghdad – College of Education Ibn Al-Haitham	partaken
15	Symposium about FFNN	=	=	=
16	Symposium about BVP	2011	=	=
17	Symposium about singular BVP	=	=	=
18	Symposium about stochastic process of Integral Equation	=	=	=
19	Symposium about mathematical stochastic	=	=	=
20	Second Conference on Computer and Information Technology	4-5/4/2012	College of Computer – University of Anbar	Researcher
21	First Conference of Karbala University - College of Education for Pure Sciences	29-4-2012	<b>Karbala University - College of Education for Pure Sciences</b>	=
22	Nineteenth Science Conference of Al-Mustansiriyah University - College of Education	25-26/4/2012	Al- Mustansiriyah University - College of Education	=
23	Symposium about mathematics teaching between situated and ambitious	6-5-2012	<b>University of Baghdad – College of Education Ibn Al-Haitham- department</b>	=
24	The second Scientific Conference for pure science of Al-Anbar University	20 – 22 / 11/2012	Al-Anbar University	=
25	The Interfusion Between of Science	13/3/2013	Baghdad University – College of Education Ibn Al-Haitham- department of mathematics	partaken
26	The second woman Scientific Conference	26-28/3/201	Baghdad University- college of woman science	Researcher
27	Second Science Conference of Mathematics Department student	5/5/2013	Baghdad University – College of Education Ibn Al-Haitham	preparative committee
28	Twenty Science Conference of Al-Mustansiriyah University - College of Education	25-26/4/2013	Al- Mustansiriyah University - College of Education	Researcher
29	International Conference of applied and pure Mathematics	8-9/5/2013	Baghdad University - College of Science	=
30	2 <sup>nd</sup> International Conference of Mathematics and its Applications	23-24/10 /	Al-Basra University - College of Science	=

31	Symposium about using Ann's in e-Government and its Applications in governing College of Education for pure	19-3-2014	Baghdad University – College of Education for pure science-	Researcher
32	The 3rd International Conference on Mathematical Sciences (ICMS3)	17-19 December 2013	Kuala Lumpur, Malaysia	Researcher
33	Third Science Conference of Mathematics Department student	14/5/2014	Baghdad University – College of Education for pure science/ Ibn Al-	preparative committee
34	Symposium about Applied Mathematics and its Matters	26/2/2015	Baghdad University – College of Education for pure science-	Researcher
35	Symposium about "The Advantages and Disadvantages of Using the Internet"	12/4/2015	Baghdad University – College of Education for pure science-mathematical department	Researcher
36	Using Modified Mathematical Methods for Determining the Rate of	10/1/2016	=	=
37	The Water is national asset and its keeping is	29/1 / 2016	=	=
38	The Ethos scientific researcher	10/1/2015	Baghdad University – College of Education for	partaken
39	Multidisciplinary Studies Academic National Conference 2016	16-17/4 / 2016	Sintok - Malaysia	Researcher
40	On Using Modified Mathematical Technique for Availing from Natural Riches	8/1/2017	<b>Baghdad University – College of Education for pure science-mathematical</b>	Researcher
41	Recent Trend in Science and Engineering Research International Conference	17-18/2/ 2017	Penang, Malaysia	Researcher
42	The 23th specialization scientific Conference in Al-Mustansirya University	26-27/4 / 2017	Al-Mustansirya University – College of Education – Baghdad - Iraq	Researcher
43	Second Scientific Conference	22/12/2016	General Education in Baghdad Rusafa First	partaken
44	Second Annual Environmental International Conference	15-16/4/2017	The Iraqi Environmental upgrading & developing organization, Kerbala,	Researcher
45	The importance of mathematics in life	26/2/2017	Baghdad University – College of Education for pure science-mathematical department	Researcher
46	10 <sup>th</sup> Scientific Conference for Agricultural Research	6-7/12/2017	<b>Ministry of Agriculture</b>	Researcher
47	Ibn Al-Haitham First International Scientific Conference	13-14/12/ 2017	University of Baghdad-College of Education for pure science–Ibn Al Haitham	Researcher
48	First International Conference of Pure Science (ICPS2018)	14-15/3/ 2018	University of Babylon	Researcher

49	College of Ibn Al-Haytham organizes a scientific symposium on the proportions of pollution in environment	19/ 1/ 2016	University of Baghdad- College of Education for pure science–Ibn Al Haitham <a href="http://en.uobaghdad.edu.iq/?p=1019">http://en.uobaghdad.edu.iq/?p=1019</a>	Researcher

### Scientific Activities

Within the College	Outside the College
Membership of Science committee in <b>Mathematics Department</b>	Discussion MSc. & Ph.D. Thesis
Membership committee of high studies	Assessing the Science search of different Science Journals
Membership of <b>board Mathematics Department</b>	Assessing the Search of Science Preferment
Membership Committee Examination of High Studies	Assessing the Science & linguist of MSc & PhD Thesis
Supervise on search of <b>Mathematics Department</b> student	Training the Teaching in Ministry of Education on <u>Numerical Analysis</u>
Conducting Educational	Editor board in 8 International Journals
Membership Committee of learning continue	Membership Committee of proof Scientific Degree in Baghdad university
Membership of Ibn Al-Haitham Journal for Pure & Applied Sciences	
Membership Committee of science preferment of college Education Ibn Al-Haitham	
Membership Committee of science supervised on foremost student	
Chairman committee assessing of researches in College of Education	
Membership Committee of learning day in 7/2/2013	
Membership Committee of setting condition for choosing lecturer of seminar	
Membership Committee of Universal examination for Ph.D. thesis	
Membership in scientific consultations office	



**Invitations:**

- Third Science Conference of Science College, march 2009, College of Science - University of Baghdad - session Organizer, Iraq.
- First Science Conference of Mathematics Department student, 4/5/2010, College of Education for pure science - Ibn Al-Haitham - University of Baghdad – scientific committee, Iraq.
- Invitation to participate in Symposium about Applied Mathematics, April 2010, College of Woman Science - University of Baghdad – Iraq.
- Invitation to organize the Second Scientific Conference of Mathematics Department student, 5/5/2013, University of Baghdad – College of Education for pure science- Ibn Al-Haitham, Iraq.
- Invitation to organize the Third Scientific Conference of Mathematics Department student, 14/5/2014, College of Education for pure science/ Ibn Al-Haitham –University of Baghdad, Iraq.
- Invitation to organize the Second Scientific Conference, 22/12/2016, General Education in Baghdad Rusafa First, Iraq.

**Research Papers:**

No.	Research Title	Place of Publication	Year
1	Some results on configurational theorems and their algebra	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.10(2)1999
2	On minor forms of quasi Desargues	=	Vol.10(2)1999
3	Minor forms of the proposition of Desargues	Sciences AL-Mustansiryra Journal	<b>Vol.8(1)1997</b>
4	Geometric aspects of four minor	=	Vol.8(2)1997
5	On minor forms of Pappus	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 8(2) 1997
6	The dual of operation $+_p$ in the ternary ring of a projective plane	=	Vol. 13(3) 2000
7	Reidemeister proposition	=	Vol. 14(4A)2001
8	A Ringoid of the ternary ring of a projective plane	=	Vol. 11(1) 1999

9	Solution of Max-Min Composite Fuzzy Relational Equations	First Science Conference of Computer Science & Mathematics in Education Ibn Al-Haitham	14-15 / 9 / 2002
10	Fuzzy Jordan – Holder theorem	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 15(3) 2002
11	Groupoids associated with the ternary ring of a projective plane	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 11(2) 1999
12	Chain length of space of fuzzy orderings and the isotropy theorem	Journal Published by Iraqi Society of Physics & Mathematics	Vol. 16(2)2001
13	Fuzzy logics	=	Vol. 17(2)2002
14	K-Standard Sequence Logic	=	Vol. 17(1)2002
15	On minor forms of Quasi-Pappus	=	Vol. 15 (2)2000
16	Stability of Runga – Kutta Methods	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 15 (4D) 2002
17	The dual of operation * in the ternary ring of a projective plane	=	Vol. 13 (3) 2000
18	Fuzzy internal direct product	=	Vol. 18 (1) 2005
19	Orderings and pre orderings of planar ternary rings	Sciences AL-Mustansiryia Journal	Vol. 9 (2) 1998
20	A space of fuzzy orderings	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.22 (4) 2009
21	On training of artificial neural networks	Al- Fattah Journal	No. 23, 2005
22	On training of feed forward neural networks	Um-Salama Journal of Sciences	Vol. 4(1) 2007
23	Density and approximation by using feed forward neural networks	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 20 (1) 2007
24	The finite element neural network and its applications to forward and inverse problem	=	Vol. 19(4) 2006
25	Some results on fuzzy coverings and partitions	Sciences AL-Mustansiryia Journal	Vol. 18 (2) 2007
26	On threshold relation and their application	Um-Salama Journal of Sciences	Vol. 3 (1) 2006
27	Fuzzy Sub Spaces for Fuzzy Space of Orderings	=	Vol. 4 (1) 2007, pp: 314-317
28	Design of artificial neural network for solving inverse problem	Journal of Al-Nahrain University - Sciences	Vol. 10 (2) 2007 2007pp.187-194
29	On Design of artificial neural networks for solving differential equations	First Arabic Conference of Mathematics in Special Applied Science University - Jordon	6-8 /10 / 2004
30	On feed forward neural network with ridge basis function	Al-Qadisiyah Journal for Pure Sciences	Vol. 12 (4) 2007

31	On radial basis function neural networks	=	Vol. 12 (3) 2007
32	Numerical solutions of fractional differential equations	Journal of Al - Nahrain University - Sciences	Vol.12(4) 2009 pp. 156-162
33	On radial basis function neural networks and its applications	First Science Conference of Al-Qadisiyah University - College of Computer Science & Mathematics	27- 28/8/ 2008
34	On Multilayer neural networks and its applications for Approximation	Third Science Conference of Science College Baghdad University	brass tacks Book pp: 672 - 678
35	On Solution of two point Second Order Linear Boundary Value Problems by using Semi-Analytic	Al-Qadisiyah Journal for Pure Sciences	Vol. 15 (1) 2010 pp: 56-69
36	Numerical solution of System of Linear Fredholm Integral equations using Open Newton Cotes Formulas	First Science Conference Iraqi – France in Science College University	14 - 18 / 11/ 2009
37	On training feed forward neural networks for Approximation Problems	Al-Qadisiyah Journal for Pure Sciences	Vol.15 (2) 2010 pp: 132 -145
38	THE COMMUTATOR OF TWO FUZZY SUBSETS	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 25 (2) 2012 pp: 347-358
39	Some Results about the Commutator of two Fuzzy Subsets of group	Al-Qadisiyah Journal for Pure Sciences	Vol. 15 (3) 2010 pp: 87- 97
40	Stability of Back Propagation Training Algorithm For Neural Networks	Baghdad Journal for Sciences	Vol. 9 (4) 2012 pp: 713- 719
41	On Fuzzy groups and group homomorphism	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.25, No.2 ,2012 pp: 340-346
42	N-Topological Space and it applications in Artificial Neural	=	Vol. 24 (1) 2011
43	Improving Gradient Descent method For Training Feed Forward Neural Networks	First International Conference of Mathematics and its Applications - Al-Basra University	1-3/ 3 / 2011
44	Some Results on Solvable Fuzzy sub groups of A group	Al-Qadisiyah Journal for Pure Sciences	Vol.16, No.4,2011 pp: 17-29
45	On Solution of Two Point Second Order Non Linear Boundary Value Problems using Semi-Analytic	Third Science Conference of Al-Qadisiyah University - College of Computer Science & Mathematics	2011
46	<b>On Comparison Between Radial basis function and Wavelet basis function Neural Networks</b>	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 23(2) 2010 pp: 184 - 192
47	On Solution of Special Case of Two Point Second Order Boundary Value Problems using Semi-Analytic	Al-Qadisiyah Journal for Pure Sciences	Vol. 2 (1) 2010
48	The Effect of Number of Training Samples for Feed Forward Neural Network	=	Vol. 2 (2) 2010 , pp: 26-35

49	The Effect of Number of Training Samples for Artificial Neural Network	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.23(3) 2010
50	Solving Special Case of Two Point Second Order Linear Boundary Value Problems using Semi-Analytic Technique	Conference of Al- Kufa	2011
51	On Solution of Two Point Second Order Boundary Value Problems using Semi-Analytic Method	Journal of Basrah Researches (Sciences)	Vol.37(4D) 2011 pp:69-77
52	Improving Conjugate Gradient method For Training Feed Forward Neural Networks	Third Science Conference of Al-Qadisiyah University - College of Computer Science & Mathematics	2011
53	Improving Gradient Descent method For Training Artificial Neural	Conference of Al- Kufa	2011
54	Using Semi-Analytic Method to Decreasing Dangers of Lead	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.24(3) 2011
55	Solution of a System of Ordinary Non Linear Initial Value Problems using Semi Analytic Technique	Al-Qadisiyah Journal for Pure Sciences	?
56	Using Semi-Analytic Method for Solving Higher Order Ordinary Non Linear Initial Value Problems	Iraqi Journal for Sciences	Vol.53,No.1, 2012, pp:140-147
57	Design Numerical scheme to Fast and Decrease the Computations of Interpolation Using Data Compression	Journal of Basic Education	Vol. 17 (69) 2011 , pp: 175- 182
58	Semi-Analytic Method for Solving Higher Order Ordinary Differential Equations with Initial condition	AL-MUSTANSIRIYAH Journal for Sciences	Vol. 23 (5) 2012 pp: 183- 194
59	Design Feed Forward Neural Network for Solving Linear Volterra Integro-	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 25 (3) 2012 pp: 316- 324
60	Solution of High Order Ordinary Boundary Value Problems Using Semi-Analytic Technique	=	Vol. 26 (1) 2013 pp: 281- 291
61	Fast Training Algorithms For Feed Forward Neural Networks	=	Vol. 26 (1) 2013 pp: 275- 280
62	On Solution of Regular Singular Ordinary Boundary Value Problem	=	Vol. 26 (2) 2013 pp: 249- 256
63	Using Semi – Analytic Technique for Solving Heat Conduction Problem in the Human Head	Al-Mustansiriyah Journal for Sciences	Vol. 23 (6) 2012 pp: 211- 218
64	<b>On Solution of Non Linear Singular Boundary Value Problem</b>	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 26 (3) 2013 pp: 320- 328
65	Solution of Fifth Order Ordinary BVPs Using Osculatory Interpolation Technique	AL-MUSTANSIRIYAH Journal for Sciences	Vol. 26 (3) 2013 pp: 320- 328
66	Solution of Six Order Boundary Value Problems Using Osculatory Interpolation Method	International Journal of Modern Mathematical Sciences	<b>2013, 7(3): 330-338</b>

67	<b>Design Fast Feed Forward Neural Network To Solve Initial Value Problems</b>	AL-MUSTANSIRIYAH Journal for Sciences	Vol. 23 (6) 2012 pp: 189- 196
68	<b>On Solving Special Case of System of Initial Value Problems using Semi-Analytic Technique</b>	Journal of Al-Qadisiyah For Pure Science	Vol. 17 (2) 2012 Pp:102- 110
69	Improve Levenberg-Marquardt Training Algorithm For Feed Forward Neural Networks	Second Conference on Computer and Information Technology/ College of Computer – University of Anbar	accepted
70	Solution of Ordinary BVPs of Eighth Order Using Osculatory Interpolation Technique	Al- Mustansiriyah University - Journal of the College of Education	Vol. 4, 2012, pp: 277-287
71	Solution of Third Order Ordinary BVPs Using Osculatory Interpolation Technique	The First Scientific Conference the College of Education for Pure Sciences Karbala University	29/4/2012, pp: 257-263
72	Solution of 2 <sup>nd</sup> Order Nonlinear Three-Point Boundary Value Problems By Semi-Analytic Technique	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.27, No. 3, 2014, pp:501-512
73	Solution of Nonlinear 2 <sup>nd</sup> Order Multi-Point BVP By Semi-Analytic Technique	مجلة الرافدين لعلوم الحاسوب و الرياضيات – كلية علوم الحاسوب و الرياضيات –الموصل <b>Raf. J. of Comp. &amp; Math's ,</b>	Vol. 10, No. 2, 2013
74	<b>Design Feed Forward Neural Networks To Solve Higher Order Boundary Value Problem</b>	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.27, No. 3, 2014,
75	Design Feed Forward Neural Network To Solve Boundary Value Problems	Journal of University of Anbar for Pure Sciences	2013, Vol.7, No.1, PP:149-157
<b>76</b>	Using Semi-Analytic Technique for Solving Lane Emden Equations	Iraqi Journal for Sciences	2013, Vol.54, No.1, Pp.165-196
<b>77</b>	On Solution of Regular Singular Initial Value Problems	Ibn Al-Haitham Journal for Pure & Applied Sciences	2013, Vol. 26, No.2 pp: 257-264
78	On solution of irregular differential equation with boundary conditions	Scientific Journal of Pure and Applied Sciences	2013, Vol. 2, No.8 pp: 293-298
79	Design Feed Forward Neural Network to Determine Doses of the Decongestant for Cold Pills	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol. 25 (3) 2012 pp: 404- 415
80	The Efficiency of Feed Forward Neural Network to Metrifying Doses of the Antihistamine Medication	<b>International Journal of Modern Biology and Medicine</b>	<b>2013, 4(2): 71-84</b>
81	Efficient Semi-Analytic Technique for Solving Nonlinear Singular Initial Value Problems	Ibn Al-Haitham Journal for Pure & Applied Sciences	Vol.27, No.3, pp:513- 522 , 2014
82	Design Feed Forward Neural Network To Solve Boundary Value Problems Neuman	The second Scientific Conference for pure science of Al-Anbar University	=
83	Stability and Convergence of Explicit Difference Method for Solving the 3-Dimensional Fractional Diffusion Equation	International Journal of Modern Mathematical Sciences, Florida, USA	Vol.2, No.1, pp:9- 21 , 2012
84	Influence Activation Function in Approximate Periodic Functions Using Neural Networks	Ibn Al-Haitham Journal for Pure & Applied Sciences	<b>Vol. 27, No.1, pp: 306-313, 2014</b>
85	Solving Eigenvalue Problem Using Semi-Analytic Technique	Al- Mustansiriyah University - Journal of the College of Education	Vol.3/2013specail No./pure science

86	Neural Network and Mathematical Modeling of a Spherical Body of Gas	International Journal of Modern Computer Science & Engineering	2013, Vol.2, No.1, pp: 1-11
87	Mathematical Model for Determining the Increased Cost of Reactive Power Transmission in Electric Power Systems	<b>International Journal of Modern Mathematical Sciences</b>	<b>2013, Vol. 6, No. 3, pp: 144-150</b>
88	Solving Multi-Point Boundary Value Problems by Hermite Interpolation	<b>International Journal of Modern Mathematical Sciences</b>	<b>2013, 5(2): 92-98</b>
89	Solving Singular Eigenvalue Problem Using Semi-Analytic Technique	<b>International Journal of Modern Mathematical Sciences</b>	<b>2013, 7(1):121-31</b>
90	Mathematical Model for Determination the Increase in Operational Cost Caused by Reactive Power Transmission in Electric Power Systems	<b>International Journal of Modern Engineering Sciences</b>	<b>2013, 2(1): 51-62</b>
91	Improving Gradient Descent Method for Training Feed Forward Neural Networks	International Journal of Modern Computer Science & Engineering	<b>2013, 2(1): 12-24</b>
92	Design Feed Forward Neural Network to Solve Singular Boundary Value Problems	Hindawi Publishing Corporation ISRN Applied Mathematics	Vol. 2013, 2013, Pp: 1-7
93	Mathematical Model for Determination the Increase in Operational Cost of Transmission Line from HAD3 to QIM3 in Electric Power Systems	Iraqi Journal of Sciences	<b>2013, Vol.54, No. 3, PP: 757-763</b>
94	Solution of Nonlinear High Order Multi-Point Boundary Value Problems By Semi-Analytic Technique	Journal of Baghdad for Sciences	<b>2015, Special Issue</b>
95	<b>Efficiency of Semi-Analytic Technique for Solving Singular Eigen Value Problems with Boundary Conditions</b>	<b>Basrah Conference</b>	<b>2015, Special Issue</b>
96	Design Feed Forward Neural Network to Solve Nonlinear Singular Boundary Value Problems	<b>Basrah Conference</b>	<b>2015, Special Issue</b>
97	The effect of meta-cognitive thinking on the achievement in mathematics of the second grade students in the inter-medial stage	Journal of University of Anbar for humanism Sciences	=
98	Design FFNN for solving nonlinear singular BVP	<b>Basrah Conference</b>	<b>2015, Special Issue</b>
99	<b>Effect of model for up gnostic in turning over mathematics for second secondary school students</b>	Journal of Al-Anbar University for humanistic science	<b>2015, Vol. 2</b>
100	Using Semi-Analytic Technique In protecting from lead Poisoning	American Open Applied Mathematics Journal	Vol. 1, No. 3, 2013, PP: 10 - 18
101	Explicit difference method for solving the two-dimensional two-sided fractional diffusion equation in the shifted grunwald estimate form	Scientific Journal of Pure and Applied Sciences	2013, vol.2, No.9, pp: 314-322
102	Mathematical Model for Determination of the Energy Loss in Electric Power Systems and its Application in Station in West of Iraq	International Journal of Modern Engineering Sciences	<b>2013, 2(2): 84-96</b>

103	Mathematical Model For Determination the Economically Justified Distance for Reactive Power Transmission in Electric Power System	International Journal of Scientific & Engineering Research	Volume 5, Issue 2, February-2014, pp: 1291-1297
104	Solving the Quadratic Eigenvalue Problem Using Repeated Interpolation	International Journal of Modern Mathematical Sciences	<b>2014, 9 (3): 145 - 153</b>
105	Using Feed Forward Neural Network to Solve Eigen value Problems	Conference Papers in Science journal	Vol. 2014, 2014, Article ID 906376, pp: 1-8
106	<b>Design Neural Network to Solve Singular Perturbation Problems</b>	<b>Applied &amp; Computational Mathematics journal</b>	<b>Vol. 3 , Issue 3, 2014, p:1-5</b>
107	Design Collocation Neural Network to Solve Singular Perturbed Problems with Initial Conditions	International Journal of Modern Engineering Science	<b>2014, 3(1): 29-38</b>
108	Using Neural Network to Solve Nonlinear Singular Perturbation Problems	Journal of Al-Qadisiya for Pure Science	Vol.19,No.4, 2014,pp:190-201
109	Solving Multi-Parameter Eigenvalue Problem Using Osculator Interpolation Method	International Journal of Modern Mathematical Sciences	2014, 12(2): 64-73
110	Improve Levenberg-Marquardt Training Algorithm for Feed Forward Neural Networks	International Journal of Modern Engineering Sciences	<b>2015, 4(1):14-21</b>
111	Solution of System of Differential Equations with Initial Conditions Using Repeated Interpolation Technique	International Journal of Advanced Scientific and Technical Research	Issue 5 volume 2, March-April 2015, pp: 289-300
112	Mathematical Modeling for the Tumor Growth in the Bladder	International Journal of Innovative Science, Engineering & Technology (IJSET)	<b>Vol. 2 Issue 5, May 2015,pp:660-665</b>
113	<b>Detection and Classification of Cancer Using Feed Forward Neural Network</b>	<b>International Journal of Modern Biology and Medicine</b>	<b>2015, 6(1): 88-94</b>
114	Solving Two-Parameter Eigenvalue Problem Using Semi-Analytic Technique	International Journal of Modern Applied Physics	<b>2015, 5(1): 26-36</b>
115	Pollution of Soils by Heavy Metals in East Baghdad in Iraq	<b>IJSET - International Journal of Innovative Science, Engineering &amp; Technology</b>	<b>Vol. 2 Issue 6, June 2015,pp: 181 - 187</b>
116	using semi-analytic technique to solve singular quadratic eigenvalue problems	<b>International Journal of Research in Science And Technology(IJRST)</b>	2015, Vol. No. 5, Issue No. II, Apr-Jun, <b>pp:60-71</b>
117	using artificial neural network technique for the estimation of cd concentration in contaminated soils	International Journal of Innovations in Scientific Engineering (IJISE)	2015, Vol.1, No. 1, Jan-Jun, <b>pp:1-7</b>
118	<b>Mathematical Model for Estimation the Concentration of Heavy Metals in Soil for Any Depth and Time and its Application in Iraq</b>	International Journal of Advanced Scientific and Technical Research	Issue 5, vol. 4, July-August 2015, p:718-726
119	Diagnosis of cancer using Artificial Neural Network	Int. J. Adv. Appl. Math. And Mech. (JJAAMM)	3(2) (2015) 45 – 49
120	<b>Using Neural Network and Singular Perturbation Problems in Face Recognition</b>	International Journal of Modern Computer Science & Engineering	<b>2015, 4(1): 1-11</b>
121	<b>Using Artificial Neural Network Technique To Estimation the Concentration of Copper for Contaminated Soils</b>	GLOBAL JOURNAL OF ENGINEERING SCIENCE AND RESEARCHES	<b>January,2016, Pp:77-80</b>
122	<b>Mathematical Model for Estimation the Concentration of Heavy Metals in Soil for Any Depth and Time and its Application in Iraq</b>	International Journal of Advanced Scientific and Technical Research	Issue 5 volume 4, July-August 2015 <b>pp:718-726</b>

123	<b>Design Suitable Neural Network for Processing Face Recognition</b>	<i>Global Journal Of Engineering Science And Researches</i>	<b>Vol.3, No. 3, March 2016, pp:58-64</b>
124	<b>Design Collocation Neural Network To Solve nonlinear singular differential Equation</b>	MJ Journal on Differential Equations	<b>Vol.1, No. 1, 2016, pp:1-8</b>
125	<b>Using Artificial Neural Network Technique to Estimation the Concentration of Copper for Contaminated Soils</b>	<b>Mathematics and Statistics (MSOA)</b>	<b>Vol. 2 Issue 1, 2016, pp: 1-4</b>
126	Using Collocation Neural Network to Solve Eigenvalue Problems	<b>MJ Journal on Applied Mathematics</b>	<b>Vol.1, No. 1, 2016, pp:1-8</b>
127	Evaluate the Rate of Contamination Soils by Copper Using Neural Network Technique	<b>Global Journal Of Engineering Science And Researches</b>	<b>Vol.3, No. 5, 2016, pp:18-22</b>
128	Solving the singular multi-parameter eigenvalue problem using repeated interpolation technique	<b>MJ Journal on Applied Mathematics</b>	<b>Vol.1, No. 1, 2016, pp:9-15</b>
129	<b>Efficiency of Semi-Analytic Technique for Solving Singular Eigen Value Problems with Boundary Conditions</b>	<i>Basrah Journal of Science</i>	<b>Vol. 34 (2), 2016, p:133-140</b>
130	Design Feed Forward Neural Networks To Solve Higher Order Boundary Value Problem	University of Anbar	<b>2016</b>
131	<b>Improving Conjugate Gradient Method for Training Feed Forward Neural Networks</b>	<b>International Journal of Modern Mathematical Sciences</b>	<b>2016, 14(3): 283-295</b>
132	<b>Using Artificial Neural Network Technique to Estimation the Concentration of Copper for Contaminated Soils</b>	<b>Mathematics and Statistics</b>	<b>2016, 2(1), 1-4</b>
133	<b>Using Cubic Trigonometric B-Spline Method to Solve BBM-Burger Equation</b>	Mathematics and Statistics Journal	2016. 2(2): 1-9
134	<b>numerical model for estimation the concentration of heavy metals in soil and its application in iraq</b>	<b>Global Journal Of Engineering Science And Researches</b>	<b>3(3)2016, 75-81</b>
135	<b>design suitable neural network for processing face recognition</b>	<b>Global Journal Of Engineering Science And Researches</b>	<b>3(3)2016, 58-64</b>
136	using artificial neural network technique to estimation the concentration of copper for contaminated soils	<i>Global Journal Of Engineering Science And Researches</i>	<b>3(1)2016, 77-80</b>
137	Estimate the concentration of heavy metals in soil by using trigonometric cubic b-spline method and its application in Baghdad, Iraq	<i>Global Journal Of Engineering Science And Researches</i>	<b>3(9)2016, 13-20</b>
138	mathematical modeling of groundwater flow	<i>Global Journal Of Engineering Science And Researches</i>	<b>3(10)2016, 15-22</b>
139	<b>Using Collocation Neural Network to Solve Eigenvalue Problems</b>	MJ Journal on Applied Mathematics	1 (1) (2016) 1-8
140	Solving the singular multi-parameter eigenvalue problem using repeated interpolation technique	<b>MJ Journal on Applied Mathematics</b>	<b>1 (1) (2016) 9-15</b>
141	Mathematical model for estimation the concentration of heavy metals in soil	<b>MJ Journal on Applied Mathematics</b>	<b>1 (1) (2016) 16-19</b>
142	on solving singular eigen value problems	Transnational Journal of Mathematical Analysis and Applications	<b>2016</b>



143	design collocation neural network to solve nonlinear singular differential equation	<i>MJ Journal on Differential Equations</i>	1 (1) (2016) 1-8
144	On solution of irregular singular initial value problems	<i>MJ Journal on Differential Equations</i>	1 (1) (2016) 9-14
145	Semi-analytic technique to solve Emden–Fowler type differential equations	<i>MJ Journal on Differential Equations</i>	1 (1) (2016) 15-21
146	Numerical solution of singular perturbation problems by using collocation neural networks	MJ Journal on Numerical Analysis	1 (1) (2017) 1-7
147	Numerical solution of the equation Modified Equal Width Equation by using Cubic Trigonometric B-Spline Method	<b>Recent Trend in Science and Engineering Research International Conference</b>	17-18/2/2017
148	Heavy Metals Pollution in Soil and Its Influence in South of Iraq	<b>International Journal of Discrete Mathematics</b>	2017; 2(3): 59-63
149	Using collocation neural network to solve nonlinear singular differential equations	<b>International Journal of Statistics and Applied Mathematics</b>	2016; 2(1): 50-56
150	Estimate the Heavy Metal Contamination in Soils Using Numerical Method and Its Application in Iraq	<b>International Journal of Basic &amp; Applied Sciences IJBAS-IJENS</b>	2017, Vol:17 No:02, p:29-35
151	Mathematical Model for Estimation the Effect of Rainwaters in Contaminated Soil and its Application in Baghdad	Proceedings of the 23th specialization scientific Conference in Al-Mustansirya University-Baghdad	25-26-4-2017
152	<b>Estimate the Rate of Pollution in Baghdad Soil by Heavy Metals</b>	<b>Second Annual Environmental International Conference-Karbala</b>	15-16/4/2017
153	Numerical Solution of the Coupled Viscous Burgers' Equation via Cubic Trigonometric B-spline Approach	Mathematics and Statistics (MSOA)	Vol.2, Issue 2, 2017,p:1-13
154	Solve the Groundwater Model Equation Using Fourier Transforms Method	<b>IJAAMM Journal</b> Int. J. Adv. Appl. Math. And Mech.	5(1) (2017) p: 75 – 80
155	Numerical solution of the equation Modified Equal Width Equation by using Cubic Trigonometric B-Spline Method	International Journal of Engineering & Technology	7 (3.7) (2018), p: 340-344
156	Mathematical Model for Estimation the Effect of Rainwaters in Contaminated Soil and its Application in Baghdad	Journal of the college of Education- Al-Mustansirya University	2017,special issue,
157	<b>Design Simulink model to Estimate the Dispersion Parameter with Application in Iraq</b>	<b>global journal of engineering science and researches</b>	4(11):November 2017, p:33-37
158	Estimation the Effect of Rainwaters in Contaminated Soil by Using Mathematical Method and its Application in Baghdad	<b>TIJAS</b>	Accepted
159	<b>Estimate the Pollution in Diyala Soils Using Interpolation Method</b>	<b>TIJAS</b>	Accepted
160	<b>A Water Treatment Process of Karbala Wells</b>	<b>TIJAS</b>	Accepted
161	<b>On Solving Modified Regularized Long Wave Equation Using Collocation Method</b>	<b>IOP Conf. Series: Journal of Physics</b>	Vol.1003 (2018) No.012062

162	<b>Steady State Radial Flow in Anisotropic and Homogenous in Confined Aquifers</b>	<b>IOP Conf. Series: Journal of Physics</b>	<b>1003 (2018) 012056</b>
163	Persons Camp Using Interpolation Method	IOP Conf. Series: Journal of Physics	<b>Vol. 1003 (2018) 012055</b>
164	<b>Estimate the Effect of Rainwaters in Contaminated Soil by Using Simulink Technique</b>	<b>IOP Conf. Series: Journal of Physics</b>	<b>1003 (2018) 012057</b>
165	Design Neural Network Based upon Decomposition Approach for Solving Reaction Diffusion Equation	<b>JARDCS</b>	<b>Accepted</b>
166	New Approach for Theis Well Function in Groundwater Management Application	<b>JARDCS</b>	<b>Accepted</b>
167	Mathematical Model for Moisture Content Resultant by Spreading Groundwater	<b>Applied Mathematical Sciences Journals</b>	<b>Accepted</b>
168	New Transform Fundamental Properties and its Applications	<b>Ibn Al-Haitham Journal for Pure and Applied Science</b>	<i>Vol. 31 (2) 2018 pp:151-163</i>
169	<b>Solution of System of Viscous Burgers' Equation via Collocation Method</b>	<b>International Journal of Modern Mathematical Sciences,</b>	<b>2018, 16(2): 106-123</b>
170	<b>Convergence of Levenberg-Marquardt Training Algorithm for solving Singular perturbation method</b>	<b>ICPS2018</b>	<b>Accepted</b>
171	<b>New Approach for Solving Three Dimensional Space Partial Differential Equation</b>	<b>Baghdad Science Journal</b>	<b>Accepted</b>
172	Design Suitable Feed Forward Neural Network to Solve Troesch's Problem	<b>ISI Science International J.</b>	<b>Accepted</b>
173	Solving Systems of Non-linear Partial differential Equations by Using Coupled Method	<b>ICPS2018</b>	<b>Accepted</b>

- **Awards and Certificates of Appreciation**

<b>No.</b>	<b>Name of Awards and Certificates</b>	<b>Donor</b>	<b>Year</b>
<b>1</b>	Certificates of Appreciation for Communion in First Science Conference of Al-Qadisiyah University - College of Computer Science & Mathematics	Al-Qadisiyah University - College of Computer Science & Mathematics	<b>2008</b>
<b>2</b>	Certificates of Appreciation for Communion in Second Science Conference of Al-Qadisiyah	=	2010
<b>3</b>	Certificates of Appreciation for Communion in Third Science Conference of Baghdad University -	Baghdad University - College of Sciences	2009

4	Certificates of Appreciation for Contributed in success the Third Science Conference of Baghdad	Baghdad University - College of Sciences	2009
5	Certificates of Appreciation for Contributed in success the First Science Conference of	Baghdad University – College of Education Ibn Al-Haitham	2010
6	Award of catholicity for patronal the scientists	Ministry of Higher Education and Scientific Research	2001
7	Award of obtain on PhD Thesis in Standard interval	Baghdad University – College of Education Ibn Al-Haitham	2004
8	Award of catholicity for patronal the scientists	Ministry of Higher Education and Scientific Research	2002
9	Certificates of Appreciation for catholicity of patronal the	College of Education Ibn Al-Haitham	2002
10	Certificates of Appreciation for exerted efforts in examining of Mathematical	=	2001
11	Certificates of Appreciation for exerted efforts of Assessing the Science search which introduced to Journal Published by Iraqi Society of	College of Education Ibn Al-Haitham	16-11-2000
12	Certificates of Appreciation for exerted efforts in examining of Mathematical	=	27- 6 -2000
13	Certificates of Appreciation for donation of some books & papers for	=	4 – 7 - 2000
14	Certificates of Appreciation for donation of some books & important	=	21– 10 - 2000
15	Certificates of Appreciation for exerted efforts of Assessing the Science search which introduced to Journal Published by Iraqi Society of Physics	College of Education Ibn Al-Haitham	26 – 2 -2000
16	Certificates of Appreciation for exerted efforts of supervised On search student in Science Conference 18 in Education Ibn Al-Haitham College	=	12 - 6 - 2001
17	Certificates of Appreciation for exerted efforts for supervised to MSc Thesis of Mahioub Mohammed Qa'aed	=	10 – 11 - 2002
18	Certificates of Appreciation for exerted efforts in discussion MSc Thesis of	=	10 – 11 - 2002
19	Certificates of Appreciation for Science exerted efforts in Mathematics Department	=	27 – 1 - 2010
20	Certificates of Appreciation for exerted efforts in discussion MSc Thesis of	=	13- 11 - 2002

21	Certificates of Appreciation for donation of some books & Science papers for library of college	=	14 – 3 - 2000
22	Certificates of Appreciation for exerted efforts of preparative committee for Science Conference 18 in Education	=	12 – 6 - 2001
23	Certificates of Appreciation for exerted efforts of Assessing the Science search which introduced to Journal Published by Iraqi Society of Physics	College of Education Ibn Al-Haitham	16 – 12- 2000
24	Certificates of Appreciation for exerted efforts of examine committee of first term	=	20 – 4 - 1995
25	Certificates of Appreciation for exerted efforts of committee of high studies in <b>Mathematics Department</b>	=	20 – 10 - 2010
26	Certificates of Appreciation for exerted efforts in First Science Conference of Mathematics Department student	=	18 – 5 - 2010
27	Certificates of Appreciation for exerted efforts in developing Ibn Al-Haitham Journal for Pure &	=	7 – 6 - 2009
28	Certificates of Appreciation for exerted efforts in developing high studies in Mathematics Department	=	28 – 2 - 2010
29	Certificates of Appreciation for exerted efforts in developing Mathematics Department	=	30 – 1-2011
30	Certificates of Appreciation for Communion in third Science Conference of Al-Qadisiyah	Al-Qadisiyah University - College of Computer Science & Mathematics	19-20/4 / 2011
31	Certificate of Merit for Communion in International Conference of <b>Mathematics and its applications</b>	Basrah University College of Science	1-3/3/ 2011
32	Certificates of Appreciation for exerted efforts of examine committee of first	College of Education Ibn Al-Haitham	2011
33	Certificates of Appreciation for exerted efforts in developing Ibn Al-Haitham Journal for Pure & Applied Sciences	=	<b>No.3103 In - 28 -7-2011</b>
34	Certificates of Appreciation for getting professor degree	Minister of Higher Education and Scientific Research	<b>No. 23283 In5 2011-9-</b>
35	Certificates of congratulating for getting professor degree	Baghdad University	<b>No.1A/ 1359 In 2011-3-9</b>
36	Certificates of Appreciation for communion in inclusive examine for	AL-MUSTANSIRIYA university College of Sciences- Dean office	No. 2162 In 4/4/2012

37	Certificates of Appreciation for exerted efforts in developing Iraqi Journal for Sciences Vol 53 No 1 2012	Baghdad University-Dean of Science College	No.24/2358 in 11-4-2012
38	Certificates of Appreciation for Communion in second Conference on	College of Computer – University of Anbar	
39	Certificates of Appreciation for Communion in first Conference of Karbala University - College of Education for	College of Education for Pure Sciences - Karbala University	
40	Certificates of Appreciation for Communion in Nineteenth Science Conference of Al-Mustansiriyah University - College of	College of Education Al- Mustansiriyah University	<b>24/5/2012</b>
41	Certificates of Appreciation for teaching PhD study and communion in inclusive examine for PhD study	AL-MUSTANSIRIYA university College of Education - Dean office	No.2990In 6/12/2012
42	Certificates of Appreciation for Communion in second Conference of	Al-Anbar University	
43	Certificates of Appreciation for exerted efforts in developing Iraqi Journal for Sciences Vol 53 No 4 2012	Baghdad University-Dean of Science College	No.24/150 in 9- 1- 2013
44	Certificates of Appreciation for dedicating the book of discrete mathematics for library of computer	College of Education Ibn Al-Haitham	No. 305 in 20- 1- 2013
45	Certificates of Appreciation for communion in inclusive examine for	AL-MUSTANSIRIYA university College of Sciences- Dean office	<b>No. 1054 in 28/2/2013</b>
46	getting the creating work" on initial value problems and its applications" on 3 <sup>rd</sup> degree in pure science pivot in festival first science youth of Baghdad university in 27/2/2013	Ministry of Youth and Sport - Directorate General of Scientific Welfar – Adminstrative Section	<b>No.556 in 24/3 2013</b>
47	Certificates of Appreciation for exerted efforts in fixing the recollecting Head of the Department of College of Education for pure Science in 20/3/2013	College of Education Ibn Al-Haitham	<b>No. 1756 in 2/4/2013</b>
48	Certificates of Appreciation for Communion in Twenty Science Conference of Al-Mustansiriyah University - College of	College of Education Al- Mustansiriyah University	<b>24/5/2013</b>
49	Certificates of Appreciation for Communion in second Science Conference for student of Mathematics Department - College of Education for science - Ibn Al-Haitham	College of Education Ibn Al-Haitham- Mathematics Department	<b>5/5/2013</b>
50	Certificates of Appreciation for getting the creating work"on initial value problems and its applications" on 3 <sup>rd</sup>	President of Baghdad University	<b>No. 6/8/ع/156 in 25/4/2013</b>
51	Certificate of Merit for Communion in International Conference of applied and pure Mathematics in 8-9/5/2013	Baghdad University- College of Science	
52	Certificates of Appreciation for the members Organizing Committee in second Science Conference for student of Mathematics Department - College of Education for	College of Education for science - Ibn Al-Haitham	<b>No. 2418, in 9/5/2013</b>
53	Certificates of Appreciation for Communion in second woman Science Conference of Baghdad University - College of woman	Baghdad University- College of woman Science	
54	Certificates of Appreciation for communion in determination the title of	AL-MUSTANSIRIYA university College of Sciences- Dean office	<b>No. 5012 In 26/9/2013</b>

55	Certificates of Appreciation for communion in determination the title of PhD thesis	AL-MUSTANSIRIYA university College of Sciences- Dean office	No. 5018 In 26/9/2013
56	Certificate of Merit for Communion in 2 <sup>nd</sup> International Conference of	Basrah University College of Science	23-24/10/ 2013
57	Certificates of Appreciation for the characteristic science achieving on international sphere	President of Baghdad University	ع ش / 1129 In 13/10/ 2013
58	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	ش ع / 507 In 2014/1/30
59	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	ش ع / 512 In 30/1/2014
60	Certificates of Appreciation for the characteristic science achieving	minister of high education and scientific research	م و / 280/5 In 16/2/2014
61	Certificates of Appreciation for publish paper in international science journal	<b>President of Baghdad University</b>	/ع ش No.1316 In 20/3/2014
62	Certificates of Appreciation for the characteristic science achieving through	College of Education for science - Ibn Al-Haitham	No. 1748 <b>in 31/3/2014</b>
63	Certificates of Appreciation for Communion in third Science Conference for student of Mathematics Department - College of Education for science - Ibn Al-Haitham	College of Education Ibn Al-Haitham- Mathematics Department	14/5/2014
64	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	العدد ش ع / 1868 في 2014/5/11
65	Certificates of Appreciation for the members Organizing Committee in third Science Conference for student of Mathematics Department - College of Education for science - Ibn Al-Haitham	College of Education for science - Ibn Al-Haitham	No. 3131 in 17/6/2014
66	Certificates of Appreciation for Communion in the 3rd International Conference on Mathematical Sciences	assisted President of Baghdad University for scientific affairs	ش ع / 2287 In 11/6/2014
67	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	No. 5574 ش ع / In 29-9-2014
68	Certificates of Appreciation for scientific appraising for MSc. thesis	assisted President of Kufa University	No.2199 <b>In 24-9-2014</b>
69	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	ش ع / 5896 <b>In 26-10-2014</b>
70	Certificates of Appreciation for communion in examine and correct for forerunner to MSc and PhD study	<b>College of Education for pure science - Ibn Al-Haitham</b>	No. 5321 In 30-10-2014
71	Certificates of Appreciation for exerted efforts in developing Iraqi Journal for Science, Vol.55, No. 2, 3, 2014	Baghdad University-Dean of Science College	No.14/7958 <b>In 20-10-2014</b>
72	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	ش ع / 6382 In 24/11/2014
73	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	ش ع / 6384 In 24/11/2014
74	Certificates of Appreciation for Communion in the 2 <sup>nd</sup> book exhibition	College of Education for science - Ibn Al-Haitham	

75	Certificates of Appreciation for communion in committee of examining	AL-MUSTANSIRIYA university College of Sciences- Dean office	No.328 in 20/1/2015
76	Certificates of Appreciation for the characteristic science achieving through dietion science lecture	College of Education for pure science - Ibn Al-Haitham	No.2005 In 8/4/2015
77	Certificates of Appreciation for communion in inclusive examine for	College of Education for pure science - Ibn Al-Haitham	No.2972 In27/5/2015
78	Certificates of Appreciation for publish paper in international science journal	<b>President of Baghdad University</b>	العدد: ش ع/1847 في 2015/4/30
79	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	No.2578 In15/6/2015
80	Certificates of Appreciation for publish paper in international science journal	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 2578 في 2015/6/15
81	<b>Certificates of Appreciation for publish paper in international science</b>	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 3007 في 2015/7/5
82	<b>Certificates of Appreciation for publish paper in international science</b>	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 3234 في 2015/7/13
83	<b>Certificates of Appreciation for publish paper in international science</b>	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 3459 في 2015/7/27
84	<b>Certificates of Appreciation for working as editor in 6 journals in Ira</b>	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 4364 في 2015/10/5
85	Certificates of Appreciation for working as Editor Bord in IJAAMM	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 96 في 2016 /1/7
86	<b>Certificates of Appreciation for publish paper in international science journal</b>	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 197 في 2016/1/11
87	<b>Certificates of Appreciation for publish paper in international science</b>	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 984 في 2016/2/24
88	<b>Certificates of Appreciation for participant in symposium to student of undergraduate in</b>	College of Education for pure science - Ibn Al-Haitham	العدد 1357 في 10 -3- 2016
89	<b>Certificates of Appreciation for publish paper in international science</b>	assisted President of Baghdad University for scientific affairs	العدد: ش ع/ 1107 في 2016/3/2
90	<b>Certificates of Appreciation for choosing ideality woman</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	2016-3-13
91	<b>Deigning as ideality women in universal day of women</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	<b>2016-3-13</b>
92	Certificates of Appreciation for communion in committee of examining	The Dean of College of Education for pure science - Ibn Al-Haitham	No.42 3-1-2016
93	<b>Certificates of Appreciation for communion in committee of examining MSc study</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	No.1578 in 23 – 3 - 2016
94	<b>Certificates of Appreciation for communion in committee of examining Ph.D study</b>	<b>The Dean of College of Education- Al- Mustansiriyah University</b>	العدد 913 في 2016 -3-22
95	<b>Certificates of Appreciation for communion in committee of examining MSc study</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	No. 261 in 13-1-2016
96	Certificates of Appreciation for working as Editor Bord in Mathematics and Statistics journal	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 1537 في 2016/3/28

97	<b>Certificates of Appreciation for publish paper in international science journal</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 1481 في 2016/3/23
98	Certificates of Appreciation for communion in determination the title of <b>phD thesis</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	No.2481 in 12/5/2016
99	Certificates of Appreciation for <b>appraising paper of preferment scientificly</b>	The Dean of College of science – Tikrit University	العدد 1633/15/7 في 2016/4/14
100	<b>Certificates of Appreciation for participant in symposium in mathematical department</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	العدد 2326 في 2016/5/8
101	Certificates of Appreciation for working as Editor Bord in <b>Editorial Board</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 2009 في 2016/4/21
102	Certificates of Appreciation for Communion in <b>MDSG</b>	<b>Penang, Malaysia</b>	17-18/2/2017
103	<b>Certificates of Appreciation for communion in determination the title of PhD thesis</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	<b>عدد 2481 في 2016-5-12</b>
104	Certificates of Appreciation for working as Editor Bord in <b>International J.of Modern Research</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 2530 في 2016/5/22
105	Certificates of Appreciation for communion in determination the <b>title of PhD thesis</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	عدد: 3217 في 2016/6/26
106	Certificates of Appreciation for communion in determination the <b>title of Msc thesis</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	عدد: 3160 في 2016/6/21
107	Certificates of Appreciation for working as Editor Bord in <b>GJESR</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 2953 في 2016/6/6
108	Certificates of Appreciation for working as Editor Bord in <b>Journal of Advance Research in</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 3367 في 2016/6/22
109	Certificates of Appreciation for working as Editor Bord in <b>IIR</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 3216 في 2016/6/14
110	<b>Certificates of Appreciation for publish paper in international science journal</b>	<b>assisted President of Baghdad University for scientific affairs</b>	عدد: ش ع / 4045 في 2016/8/14
111	<b>Certificates of Appreciation for publish paper in international science journal</b>	<b>assisted President of Baghdad University for scientific affairs</b>	عدد: ش ع / 4046 في 2016/8/14
112	<b>Certificates of Appreciation for publish paper in international science journal</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع / 4044 في 2016/8/12
113	Certificates of Appreciation for <b>appraising paper of preferment scientificly</b>	<b>The President of Tikrit University</b>	عدد: 7885/15/7 في 2016/5/29
114	<b>Certificates of Appreciation for communion in committee of</b>	The Dean of College of science – Al-Nahrain University	عدد: ع م ع / 300 في 2017/1/18



115	<b>Certificates of Appreciation for communion in committee of examining MSc study</b>	The Dean of College of Education- Al- Mustansiriyah University	عدد: 2806 في 2016/9/19
116	<b>Certificates of Appreciation for publish book in international lap Lambert publisher</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع 3862/ في 2016/7/27
117	<b>Certificates of Appreciation for publish book</b>	President of Baghdad University	عدد: 1/ 1023 في 2017/2/6
118	<b>Certificates of Appreciation for conferment book</b>	The Dean of College of Education for pure science – Diyala University	عدد: 592 في 2017/2/5
119	<b>Certificates of Appreciation for conferment book</b>	The Dean of College of Computer science and Information Technology- Al-Qadisiyah University	عدد: 446 في 2017/2/6
120	<b>Certificates of Appreciation for conferment book</b>	The Dean of College of sciences – Diyala University	عدد: 599 في 2017/2/8
121	<b>Certificates of Appreciation for conferment book</b>	The Dean of College of Basic Education– Diyala	عدد: 1576 في 2017/4/24
122	<b>Certificates of Appreciation for conferment book</b>	The Dean of College of Education– Al- Qadisiyah	عدد: 2280 في 2017/3/8
123	<b>Certificates of Appreciation for publish book in international lap Lambert publisher</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع 5299 في 2016/11/10
124	<b>Certificates of Appreciation for publish book in international lap</b>	assisted President of Baghdad University for scientific affairs	عدد: ش ع 5298 في 2016/11/10
125	<b>Certificates of Appreciation for participant in symposium in mathematical department</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	عدد: 252 في 2017 /1/11
126	<b>Certificates of Appreciation for publish IHJPAS Issue No.1, Vol.29, 2016</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	عدد: 2610 في 2016/5/17
127	<b>Certificates of Appreciation for publish IHJPAS Issue No.3, Vol.29, 2016</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	عدد: 558 في 2017/1/26
128	Certificates of Appreciation for publish IHJPAS Issue No.1, Vol.30, 2017	The Dean of College of Education for pure science - Ibn Al-Haitham	عدد: 2419 في 2017/5/8
129	Certificates of participation in the Second Annual Environmental International	President of Conference and President of organization	2017/4/16
130	Certificates of participation in the Second Scientific Conference of General Education	President of Baghdad Provincial council	2017/12/22
131	Certificates of participation in the 23th specialization scientific Conference in	The Dean of College of Education - Al- Mustansiriyah University	2017/4/27
132	<b>Certificates of Appreciation for conferment book</b>	The Dean of College of Education – Iraqia University	عدد: ك ت ع 23/ في 2017/3/9
133	<b>Certificates of Appreciation for participant in symposium in mathematical department</b>	The Dean of College of Education for pure science - Ibn Al-Haitham	عدد: 1183 في 2017/2/28
134	<b>Certificate of Appreciation for the characteristic science achieving</b>	Minister of high education and scientific research	عدد: م و 319/5 في 2018 /2/22

**Books:**

No.	Scientific Literature Title	Year of The
1	On Initial Value Problems and its Applications	LAP LAMBERT Academic Publishing - 2012
2	Fast Feed forward Neural Networks to Solve Boundary Value Problems	LAP LAMBERT Academic Publishing - 2012
3	<b>Multi-Point Boundary Value Problems</b>	LAP LAMBERT Academic Publishing - 2012
4	Singular Initial Value Problems	LAP LAMBERT Academic Publishing - 2013
5	Design Feed forward Neural Networks for Solving Ordinary Initial Value	LAP LAMBERT Academic Publishing - 2013
6	On Solving Singular Boundary Value Problems and Its Applications	LAP LAMBERT Academic Publishing - 2013
7	<b>Design Fast Feed forward Neural Networks To Solve SBVP</b>	LAP LAMBERT Academic Publishing - 2014
8	<b>High Order Two Point Boundary Value Problems</b>	LAP LAMBERT Academic Publishing - 2014
9	<b>Using ANN to Decrease The Losses in Electric Power System</b>	LAP LAMBERT Academic Publishing - 2014
10	On Eignvalue Problems	LAP LAMBERT Academic Publishing - 2015
11	<b>New Technique to Estimate the Concentration of Heavy Metals in Soil</b>	<b>LAP LAMBERT Academic Publishing- 2016</b>
12	<b>MATHEMATICAL MODELING AND SOIL POLLUTION</b>	LAP LAMBERT Academic Publishing- 2016
13	<b>New Technique to Estimate the Tumor Growth for Cancer</b>	LAP LAMBERT Academic Publishing- 2016
14	<b>MATLAB Programming Fundamentals-First Edition</b>	National Publisher House
15	<b>Effect of Rainwater in Contaminated Soil Using Mathematical Methods</b>	LAP LAMBERT Academic Publishing- 2018
16	<b>Mathematical Models For Contamination Soil</b>	LAP LAMBERT Academic Publishing- 2018
17	<b>Introduction of Simulink Environment</b>	In Press

## Chapters in Books

### 1. Laplace Transforms,

<https://issuu.com/lumanajimohammedtawfiq/docs/laplace>

### 2. Exploring Microsoft Office Word 2010, 2017

<https://issuu.com/lumanajimohammedtawfiq/docs/word-2010>

## Projects

### 1. Estimate the Rate of Cadmium Pollution in Baghdad Soils by Using Neural Network Technique,

[https://issuu.com/lumanajimohammedtawfiq/docs/project\\_1\\_1f14f7cf30e4c6](https://issuu.com/lumanajimohammedtawfiq/docs/project_1_1f14f7cf30e4c6)

## Software: (Published)

### 1. An Introductory on MATLAB and Simulink, 2016

<https://issuu.com/lumanajimohammedtawfiq/docs/matlabstimulinktutorial-issuu>

### 2. Introduction to matlab 1, 28/3/2017,

[https://issuu.com/lumanajimohammedtawfiq/docs/introduction\\_to\\_matlab\\_1](https://issuu.com/lumanajimohammedtawfiq/docs/introduction_to_matlab_1)

### 3. Two Dimensional Plots, 2017

[https://issuu.com/lumanajimohammedtawfiq/docs/matlabplotting\\_2](https://issuu.com/lumanajimohammedtawfiq/docs/matlabplotting_2)

## University Activities

### 1. College of Ibn Al-Haytham organizes a scientific symposium on the proportions of pollution in environment in 19/1/2016:

<http://en.uobaghdad.edu.iq/?p=1019>