السيرة الذاتية CV

البيانات الشخصية

الاسم	:	مجيد احمد ولي
محل وتاريخ الولادة	:	بغداد- 1978
الجنس	:	ذكر
الحالة الزوجية	:	متزوج
اللغات التي يتقنها	:	العربية والانكليزية
الجنسية والقومية	:	عراقي-عربي
عنوان العمل	:	جامعة بغداد كلية التربية (ابن الهيثم) قسم الرياضيات

الالقاب العلمية

استاذ مساعد	2015
مدرس	2012
مدرس مساعد	2005

الشهادات والدورات

الشهادة	السنة	الجهة المانحة
بكلوريوس علوم رياضيات	2000	جامعة بغداد كلية التربية ابن الهيثم
ماجستير علوم رياضيات	2005	جامعة بغداد كلية التربية ابن الهيثم
دكتوراه علوم رياضيات (التحليل العددي)	2012	جامعة برونيل-انكلترا- لندن

الدورات

1- اجتياز امتحان كفاءة اللغة الانكليزية جامعة بغداد (2002).
2- دورة الكفاء في استخدام الحاسوب جامعة بغداد –التربية ابن الهيثم (2002).
3- اجتياز امتحان الايلتس من جامعة برونيل البريطانية بعد كورس اللغة (2008).
4- اجتياز دورة تعلم اللاتكس من جامعة برونيل –انكلترا- لندن (2011).

السيرة الادارية

رئيس قسم الرياضيات **2014-2018**

المواد الدراسية التي درستها

التحليل العقدي	**المرحلة الرابعة**	**2001-2000:**
المعادلات التفاضلية الاعتيادية	**المرحلة الثانية**	**2019-2018و2008-2006**
التحليل العددي	**المرحلة الثالثة**	**2014-2012 :**
المعادلات التكاملية	**الماجستير**	**2019-2014:**
المعادلات التفاضلية الاعتيادية والجزئية	**الماجستير**	**2019-2015:**
المعادلات التفاضلية والتكاملية	**الدكتوراه**	**2019-2018:**

المهارات البرمجية

جيد في
MATLAB, MATHEMATICA, MAPLE and LATEX.

الاطاريح والاشراف

1- **Majeed Ahmed** "The radial integration boundary integral and integro-differential equation methods for numerical solution of problems with variable coefficients", PhD thesis, Brunel University, London, UK, 2012. **Available at:**

http://bura.brunel.ac.uk/handle/2438/6449

2- **Majeed Ahmed** **"**Numerical Methods For System of Integral Equations",M.Sc. thesis, Baghdad University, Baghdad, Iraq.

الاشراف

الماجستير 10، 9 تمت المناقشة من كلية التربية ابن الهيثم وواحد من كلية العلوم جامعة النهرين .

البحوث المنشورة في مجلات عالمية ذات عامل التاثير

1- **M.A. AL-Jawary and L.C. Wrobel**. Numerical solution of two-dimensional mixed problems with variable coefficients by the boundary-

domain integral and integro-differential equation methods, Engineering Analysis with Boundary Elements, 35:1279-1287; 2011.

2- **M.A. AL-Jawary and L.C.Wrobel**. Radial integration boundary integral and integro-differential equation methods for two-dimensional heat conduction problems with variable coefficients, Engineering Analysis with Boundary Elements, 36:685-695;2012.

3- **M.A. AL-Jawary and L.C. Wrobel**. Numerical solution of the two-dimensional Helmholtz equation with variable coefficients by the radial integration boundary integral and integro-differential equation methods. International Journal of Computer Mathematics, Vol. 89, No. 11, July 2012, 1463–1487.

4- **M.A. AL-Jawary, J. Ravnik, L.C. Wrobel and L. Skerget**. Boundary element formulations for numerical solution of two-dimensional diffusion problems with variable coefficients. Computers and Mathematics with Applications, Volume 64, Issue 8, October 2012, Pages 2695-2711.

5- **AL-Jawary MA and Wrobel LC**, Recent Progress In The Radial Integration Boundary Integral And Integro- Differential Equation Methods For Numerical Solution Of Problems With Variable Coefficients, J Applied Computat Mathemat 1:e115. doi:10.4172/2168-9679.1000e115.

6- **M. A. AL-Jawary**, Approximate solution of a model describing biological species living together using a new iterative method, *International Journal of Applied Mathematical Research, 3 (4) (2014) 518-528.*

7- **M. A. AL-Jawary,** A reliable iterative method for Cauchy problems, Mathematical Theory and Modeling, Vol.4,No.13,2014, 148-153.

8- **M. A. AL-Jawary , F. S. Ahmed and Fadhel S. F.**, Analytic approximate solutions of Volterra's population and some scientific models by power series method, Mathematical Theory and Modeling, Vol.4,No.11,2014, 1-13.

9- **M. A. AL-Jawary**, A reliable iterative method for solving the epidemic model and the prey and predator problems, *International Journal of Basic and Applied Sciences, 3 (4) (2014) 441-450.*

10- **M. A. AL-Jawary , H. R. AL-Qaissy**, Analytical approximate solutions for linear and nonlinear Volterra integral and integro-differential equations and some applications for the Lane-Emden equations using a powerseries method, Mathematical Theory and Modeling, Vol.4,No.8,2014, 133-152.

11- **M. A. AL-Jawary and H. R. AL-Qaissy**, A reliable iterative method for solving Volterra integro-differential equations and some applications for the Lane–Emden equations of the first kind, MNRAS 448, 3093–3104 (2015), *Monthly Notices of the Royal Astronomical Society, I.F* 5.107.

12- **M. A. AL-Jawary**, Exact solutions to linear and nonlinear wave and diffusion equations, International Journal of Applied Mathematical Research, 4 (1) (2015) 106-118.

13- **M. A. AL-Jawary,** Analytic Solutions for Solving Fourth-Order Parabolic Partial Differential Equations with Variable Coefficients, International Journal of Advanced Scientific and Technical Research Issue 5 volume 3, May-June 2015, 531-545.

.

14- **M. A. AL-Jawary, A. M. Shehan**,The Modified Power series Method for Solution of Weakly Singular Volterra Integral Equations, International Journal of Advanced Scientific and Technical Research Issue 5 volume 4, July-August 2015.

.

15- **M. A. AL-Jawary**, An Efficient Treatments For Linear And Nonlinear Heat-Like And Wave-Like Equations With Variable Coefficients, *IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 11, Issue 4 Ver. I (Jul - Aug. 2015), PP 01-13.* AQCJ Impact Factor 1.321.

16- **M. A. AL-Jawary, A. M. Shehan**, Exact solutions for weakly singular Volterra integral equations by using an efficient iterative method, *IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 11, Issue 6 Ver. II (Nov. - Dec. 2015), PP 67-76.* AQCJ Impact Factor 1.321.

17- **M. A. AL-Jawary, G. H. Radhi** , The variational iteration method for calculating carbon dioxide absorbed into phenyl glycidyl ether, *IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 11, Issue 6 Ver. 1 (Nov. - Dec. 2015), PP 99-105.* AQCJ Impact Factor 1.321.

18- **M. A. AL-Jawary, R. K.Raham**, Numerical solution for chemical kinetics system by using efficient iterative method, International Journal of Advanced Scientific and Technical Research Issue 6 volume 1, Jan. –Feb. 2016, 367-375.

19- **M.A.AL-Jawary,S.G.Abd-AL-Razaq**, Analytic and numerical solution for doffing equations, International Journal of Basic and Applied Sciences, 5 (2) (2016) 115-119.

20- **M. A. Al-Jawary, A. H. Abass**, Numerical Solution of Two-Point Boundary Value Problems By Using Reliable Iterative Method, *IOSR Journal of Mathematics (IOSR-JM),* Volume 12, Issue 2 Ver. I (Mar. - Apr. 2016), PP 09-17.

21- **M. A. Al-Jawary, R. K. Raham, G. H .Radhi**, An Iterative Method For Calculating Carbon Dioxide Absorbed Into Phenyl Glycidyl Ether, J. Math. Comput. Sci. 6 (2016), No. 4, 620-632.

22- **M. A. AL-Jawary , S. G. AL-Razaq**, A semi analytical iterative technique for solving Duffing equations, International Journal of Pure and Applied Mathematics,108(2016) 871-885.

23- **M. A. AL-Jawary, R. K.Raham**, A semi-analytical iterative technique for solving chemistry problems, Journal of King Saud University – Science (2017) 29, 320–332.

24- **M.A.AL-Jawary**, An efficient iterative method for solving the Fokker-Planck equation, Results in Physics 6 (2016) 985–991.

25- **Majeed Ahmed AL-Jawary ,Ghassan Hasan Radhi** ,Jure Ravnik Boundary-domain integral method and homotopy analysis method forsystems of nonlinear boundary value problems in process engineering, (under review).

26- M. A. Al-Jawary, G. H. Radhi, Jure Ravnik, Two efficient methods for solving Schlömilch's integral equation , International Journal of Intelligent Computing and Cybernetics, 2017, Vol. 10 Issue: 3, pp.287-309.

27- **M. A. Al-Jawary**, A semi analytical iterative method for solving nonlinear thin film flow problems, Chaos, Solitons & Fractals 99 (2017) 52–56.

28- **Majeed Ahmed AL-Jawary and Sinan Hatif**, A semi-analytical iterative method for solving differential algebraic equations, Ain Shams Engineering Journal, Volume 9, Issue 4, December 2018, Pages 2581-2586.

29- **M. A. Al-Jawary, Mustafa Mahmood Azeez, G. H. Radhi**, Analytical and numerical solutions for the nonlinear Burgers and advection–diffusion equations by using a semi-analytical iterative method. Computers and Mathematics with Applications Volume 76, Issue 1, 1 July 2018, Pages 155-171.

30- **M. A. Al-Jawary, G. H. Radhi, Jure Ravnik**, A Semi-Analytic Method for Solving Fokker-Plank Equations, Journal of the Association of Arab Universities for Basic and Applied Sciences, Volume 24, October 2017, Pages 254-262.

31- **M. A. Al-Jawary, G. H. Radhi, Jure Ravnik**, Daftardar-Jafari Method for Solving Nonlinear Thin Film Flow Problem, Journal of the Association of Arab Universities for Basic and Applied Sciences, Journal Arab Journal of Basic and Applied Sciences, Volume 25, 2018 - Issue 1, 20-27.

32- **Majeed Ahmed AL-Jawary, Mustafa Mahmood Azeez** Efficient Iterative Method for Initial and Boundary Value Problems Appear in Engineering and Applied Sciences, International Journal of Science and Research (IJSR), Volume 6 Issue 6, June 2017, 529-538.

33- **Majeed Ahmed AL-Jawary, Areej Salah Mohammed**, A Semi-Analytical Iterative Method for Solving Linear and Nonlinear Partial Differential Equations, International Journal of Science and Research (IJSR), Volume 6 Issue 5, May 2017, 978-982.

34- **M. A. Al-Jawary, G. H. Radhi, Jure Ravnik**,Development of the Banach contraction method for the solution of nonlinear thin film flows of non-Newtonian fluids, Journal Arab Journal of Basic and Applied Sciences, Volume 25, 2018 - Issue 3, 122-131.

35- **Abdul Nabi, A. J. and AL-Jawary, M.A.**, 2018. Analytical and Numerical Solutions for the Linear and Nonlinear 1D, 2D and 3D Telegraph Equations**.** Journal of Advanced Research in Dynamical and Control Systems, 10(10-Special Issue), pp. 2090-2105.

36- **Al-Jawary, M.A., Adwan, M.I. and Radhi, G.H.**, 2018. Three iterative methods for solving second order nonlinear ODEs arising in physics. Journal of King Saud University-Science (In press).

37- Majeed A. AL-Jawary and Othman M. Salih, Reliable iterative methods for 1D Swift–Hohenberg equation, Journal of Advanced Research in Dynamical and Control Systems (Submitted).

38- M. I. Adwan, M. A. Al-Jawary, J. Tibaut and J. Ravnik, Analytic and numerical solutions for linear and nonlinear 1D, 2D and 3D wave equations**,** (Submitted).

39- M. A. Al-Jawary, Ghada H. Ibraheem, Two Meshless Methods for Solving Nonlinear Ordinary Differential Equations in Engineering and Applied Sciences**,** (Submitted).

40- Majeed Ahmed Weli, AL-Zahraa J. Abdul Nabi, Reliable iterative methods for solving convective straight and radial fins with temperature-dependent thermal conductivity problems, Gazi University Journal of Science (In Press).

41- Majeed Ahmed Weli, AL-Zahraa J. Abdul Nabi, Three iterative methods for solving Jeffery-Hamel flow problem, Kuwait Journal of Science, (In Press).

البحوث المنشورة في مؤتمرات دولية

1- **M.A. AL-Jawary, L.C.Wrobel, M. Maischak.** Numerical solution of a Dirichlet problem with variable coefficients by the boundary-domain integro-differential equation method. In: Lesnic D., editor. Eighth UK Conference on Boundary Integral Methods, University of Leeds Press; 2011, pp. 25-32. ISBN9780853162957.
2- **M.A. AL-Jawary, L.C. Wrobel, M. Maischak.** Numerical solution of a Neumann problem with variable coefficients by the boundary-domain integral equation method. In: Lesnic D., editor. Eighth UK Conference on Boundary Integral Methods, University of Leeds Press; 2011, pp. 33-40. ISBN 9780853162957.
3- **M.A. AL-Jawary and L.C.Wrobel.** Numerical solution of a mixed problem with variable coefficients by the boundary-domain integral and integro-differential equation methods. The International Association for Boundary

Element Methods, IABEM 2011, Brescia, Italy, University of Brescia Press; 2011, pp.19-26.

4- **M.A. AL-Jawary, J. Ravnik, L.C. Wrobel and L. Skerget.** Novel BEM formulations for numerical solution of two-dimensional diffusion problems with variable coefficients. In: Eds.: A. Nowak, R.A. Bialecki. ECCOMAS Special Interest Conference, Numerical Heat Transfer, 4-6 September 2012, Gliwice-Wroclaw, Poland, (accepted for presentation and publication).

5- **Jure Ravnik, Majeed Ahmed Weli, L. Škerget, Luiz C. Wrobel**. Boundary element formulations for numerical solution of time-dependent convection-diffusionproblemswith variable diffusivity and velocity. Conference: Proceedings of the 9th UK Conference on Boundary Integral Methods, 2013, University of Aberdeen, At: University of Aberdeen, UK.

كتب الشكر والتقدير

معالي وزير التعليم العالي الاستاذ علي محمد الحسين علي الأديب (كتابين).
الملحق الثقافي في لندن (كتاب)
رئيس جامعة بغداد الاستاذ الدكتور السابق موسى الموسوي (كتاب).
رئيس جامعة بغداد الاستاذ الدكتور علاء عبد الحسين (كتب عديدة).
مساعد رئيس الجامعة للشؤون العلمية السابق الاستاذ الدكتور رياض عزيز هادي(كتاب).
مساعد رئيس الجامعة للشؤون العلمية الاستاذ المساعد الدكتور علاء كريم محمد(كتاب).
مساعد رئيس الجامعة للشؤون العلمية الاستاذ المساعد الدكتور اسامة عبد اللطيف(كتب عديدة).
السيد عميد كلية التربية ابن الهيثم الاستاذ الدكتور خالد فهد علي وعمداء كليات اخرى (كتب عديدة).

النشاطات العلمية الاخرى

1- عضو هيئة تحرير مجلة الرياضيات التطبيقية و الحاسوبية

http://www.omicsgroup.org/journals/editorialboardJACM.php

2- عضو هيئة تحرير مجلة الرياضيات

http://www.rroij.com/editorialboard-statistics-and-mathematical-sciences.php

3- مقيم علمي في المجلة العالمية

http://www.journals.elsevier.com/applied-mathematical-modelling

4- مقيم علمي في المجلة العالمية

http://jafmonline.net/web/guest/home

5- مقيم علمي في المجلة العالمية

http://journals.itb.ac.id/index.php/jmfs

6- مقيم علمي في المجلة العالمية

http://www.emeraldinsight.com/loi/k

7- مقيم علمي في المجلة العالمية:

https://benthamopen.com/TOCIEJ/home/

8- مقيم علمي في المجلة العالمية:

https://www.journals.elsevier.com/applied-mathematics-and-computation/

9- مقيم علمي في المجلة العالمية:

https://www.journals.elsevier.com/computers-and-mathematics-with-applications/

10- مقيم علمي في المجلة العالمية:

https://www.journals.elsevier.com/chaos-solitons-and-fractals

11- مقيم علمي في المجلة العالمية:

http://www.emeraldinsight.com/journal/ijicc

12- مقيم علمي في المجلة العالمية:

http://www.naturalspublishing.com/show.asp?JorID=7&pgid=0

13- مقيم علمي في المجلة العالمية:

https://www.worldscientific.com/worldscinet/ijb

14- الاشتراك في الباحث العلمي:

http://scholar.google.com/citations?hl=en&user=YLHEBmkAAAAJ

15- اثبات معامل واشتراك في سكوبس:

https://www.scopus.com/authid/detail.uri?authorId=42961045200

16- الاشتراك في بوابة البحث العلمي:

https://www.researchgate.net/profile/Majeed_Weli

17- الاشتراك في موقع **Publons**

https://publons.com/researcher/1614536/assistant-professor-dr-majeed-ahmed-weli/

18- تم تكريمي في 26-6-2016 من قبل السيد رئيس الجامعة المحترم ا.د. علاء عبد الحسين عن كلية التربية ابن الهيثم للعلوم الصرفة لنشري بحوث في مجلات عالمية رصينة ضمن تصنيف ثومسن وسكوبس.

Majeed Ahmed Weli

Department of mathematics, college of education for pure sciences\ Ibn-AL-Haitham

Baghdad University, Baghdad, Iraq

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Majeed.a.w@ihcoedu.uobaghdad.edu.iq ;majeed078@gmail.com

GENAERAL INFORMATION

Date of birth: 26/9/1978

Gender: Male

Nationality: Iraqi

EDUCATION

2008-2012 **PhD** – Mechanical Engineering, Department of Mechanical Engineering, School of Engineering and Design, Brunel University, London, UK

2003-2005 **M.Sc. (Distinction)** –Mathematical Science, Department of mathematics, college of education Ibn-AL-Haitham, Baghdad University, Baghdad, Iraq

1996-2000 **B.Sc. (Distinction)** –Mathematical Science, Department of mathematics, college of education Ibn-AL-Haitham, Baghdad University, Baghdad, Iraq

WORK EXPERIENCE

2014- 2018 Assistant Professor, Head of department of Mathematics, college of education Ibn-AL-Haitham, Baghdad University, Baghdad, Iraq

2015 Assistant Professor in department of Mathematics, college of education Ibn-AL-Haitham, Baghdad University, Baghdad, Iraq

2012-2015 Lecturer in department of Mathematics, college of education Ibn-AL-Haitham, Baghdad University, Baghdad, Iraq

2005-2008 Assistant Lecturer in department of Mathematics, college of education Ibn-AL-Haitham, Baghdad University, Baghdad, Iraq

2000-2003 Assistant researcher in department of Mathematics, college of education Ibn-AL-Haitham, Baghdad University, Baghdad, Iraq

TEACHING EXPERIENCE

- Numerical analysis
- Ordinary differential equations
- Partial differential equations
- Integral equations.
- Complex numbers

Supervision

- Several undergraduate students
- 10 master students

RESEARCH INTERESTS

- Numerical solution for integral equations: Volterra integral equations, Fredholm integral equation for first and second kinds.
- Numerical solution for system of integral equations: Volterra integral equations, Fredholm integral equation for first and second kinds.
- The boundary element method for the numerical solution of boundary-value problems (BVPs) with constant and variable coefficients.
- Numerical solution for heat conduction, Helmholtz equation and diffusion equation with constant and variable coefficients.

- The finite element method for a linear partial differential equation.
- Other numerical method such as finite difference method and quadrature methods for partial differential equation and integral equations.

Programming skills

- Good in **MATLAB**
- Good in **Mathematica**
- Good in **Latex**

Reviewer and member of editorial board of international journal

Member of the Editorial Board of the
1) Journal of Applied & Computational Mathematics:
http://www.omicsgroup.org/journals/editorialboardJACM.php
2) The Journal Statistics and Mathematical Sciences:
http://www.rroij.com/editorialboard-statistics-and-mathematical-sciences.php
Reviewer of the following journals:
http://www.journals.elsevier.com/applied-mathematical-modelling
https://www.journals.elsevier.com/applied-mathematics-and-computation/
https://www.journals.elsevier.com/computers-and-mathematics-with-applications/
https://www.journals.elsevier.com/chaos-solitons-and-fractals
http://jafmonline.net/web/guest/home
http://journals.itb.ac.id/index.php/jmfs
http://www.emeraldinsight.com/loi/k
https://benthamopen.com/TOCIEJ/home/
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PUBLICATIONS

Thesis

1- **Majeed AL-Jawary** "The radial integration boundary integral and integro-differential equation methods for numerical solution of problems with variable coefficients", PhD thesis, Brunel University, London, UK, 2012.
2- **Majeed AL-Jawary** **"**Numerical Methods For System of Integral Equations",M.Sc. thesis, Baghdad University, Baghdad, Iraq.

Journals- papers

1- **M.A. AL-Jawary and L.C. Wrobel**. Numerical solution of two-dimensional mixed problems with variable coefficients by the boundary-domain integral and integro-differential equation methods, Engineering Analysis with Boundary Elements, 35:1279-1287; 2011.

2- **M.A. AL-Jawary and L.C.Wrobel**. Radial integration boundary integral and integro-differential equation methods for two-dimensional heat conduction problems with variable coefficients, Engineering Analysis with Boundary Elements, 36:685-695;2012.

3- **M.A. AL-Jawary and L.C. Wrobel**. Numerical solution of the two-dimensional Helmholtz equation with variable coefficients by the radial integration boundary integral and integro-differential equation methods. International Journal of Computer Mathematics, Vol. 89, No. 11, July 2012, 1463–1487.

4- **M.A. AL-Jawary, J. Ravnik, L.C. Wrobel and L. Skerget**. Boundary element formulations for numerical solution of two-dimensional diffusion problems with variable coefficients. Computers and Mathematics with Applications, Volume 64, Issue 8, October 2012, Pages 2695-2711.

5- **AL-Jawary MA and Wrobel LC**, Recent Progress In The Radial Integration Boundary Integral And Integro- Differential Equation Methods For Numerical Solution Of Problems With Variable Coefficients, J Applied Computat Mathemat 1:e115. doi:10.4172/2168-9679.1000e115.

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10- **M. A. AL-Jawary , H. R. AL-Qaissy**, Analytical approximate solutions for linear and nonlinear Volterra integral and integro-differential equations and some applications for the Lane-Emden equations using a powerseries method, Mathematical Theory and Modeling, Vol.4,No.8,2014, 133-152.

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12- **M. A. AL-Jawary**, Exact solutions to linear and nonlinear wave and diffusion equations, International Journal of Applied Mathematical Research, 4 (1) (2015) 106-118**.**

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14- **M. A. AL-Jawary, A. M. Shehan**,The Modified Power series Method for Solution of Weakly Singular Volterra Integral Equations, International Journal of Advanced Scientific and Technical Research

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