



Personal Data:

Name : Mohamed Abdella Ahmed Abdou
Scientific Name: M. A. Abdou
Date of Birth: 29/11/1955
Nationality: Egyptian
Marital Status: Married
Profession: Professor of Integral Equations and Mathematical Physics
Current Administrative Position: Head of Mathematics Council.
Previous Administrative Position: Vice-Dean of Faculty of Education.
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Scientific Career History:

1. Bachelor of Science(1978), Department of Mathematics, Faculty of Science, Alexandria University.
2. Teaching Assistant(31.10.1978), Faculty of Education, Department of Mathematics, University of Alexandria.,
3. Masters in Applied Mathematics(1983), Department of Mathematics, Faculty of Science, University of Alexandria. Title of master: '**On Some Problems of Elastic Plates**'.
4. Assistant Lecturer (1984), Faculty of Education, Department of Mathematics, University of Alexandria.
5. PhD in Physical Mathematics (integral equations) of the Academy of Sciences, Armenia - USSR 1991. Title of master: '**Integral Equations and Some Contact Problems in Mathematical Physics**'
6. Lecturer, Faculty of Education, Department of Mathematics, University of Alexandria in 1991.



7. Assistant Professor, Faculty of Education and Integrative flexibility equations, Department of Mathematics, University of Alexandria in 1996.
8. Professor of integral equations and flexibility, Department of Mathematics, Faculty of Education, University of Alexandria in 2001.
9. Seconded Applied Mathematics Department, Faculty of Science, Umm Al Qura University, Saudi Arabia during the period from 2002 to 2009
10. Head of the Department of Mathematics - Faculty of Education - Alexandria University of 12/2013 – Present.
11. Vice Dean "for Community and Environment" - College of Education - Alexandria University of During (9/2011 - 9/2014).
12. member committee lands Alexandria University - from 9/2012 for one year.
13. Member of the Standing Scientific Committee of the Supreme Council of Universities in mathematics Professors and assistant Professors promotions. (2013 - Present).
14. Scientific Reviewer of the integral equations and contact Problems with the US Supreme Mathematics Society MR 60 417.
15. Holds the University of Alexandria Appreciation Award for year 2014.

Scientific supervision:

Actively developed a scientific scale of schools in the integral equations, contact problems in the theory of elasticity and mathematical physics .Have supervised master and doctoral students and researches degree promotion to assistant professor and professor as follows: Also, a member of Permanent Committee for Academic Promotion.



First: Supervised MScs obtained by students:

- 1) Researcher | Mohammed Abdullah Darwish "**On some methods for solving Integral equations in some Mathematical physics problems**" (1994), Alexandria University.
- 2) Researcher | Mohamed Bassim Soliman "**On some numerical solutions for some linear integral equations**" (2002). Alexandria. University
- 3) Researcher | Mohamed Ahmed Elsaied "**On some problems of singular integral equations**" (2003) Helwan University.
- 4) Researcher | Samiha Ali Raad "**Some numerical methods for solving the singular integral equation**" (Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dep. (2005)
- 5) Researcher | Dalal Adnan Mtuori "**Fredholm integral equation with continuous and discontinuous kernels**" (Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept. (2005).
- 6) Researcher | Fatimah Salem Abdullah Bayonis "**Eigenvalues and Eigen functions of integral equation with continuous and discontinuous kernel**" (Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept. (2006).
- 7) Researcher | Amal Safar Hussane Al-Nufaie "**On some Methods for solving the Volterra Integral Equation**" (Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math Dept. (2006).
- 8) Researcher | Faizah Mohamed Hamdi Al – Saedy "**Potential Function in Fredholm – Volterra Integral Equation**", (Saudi Arabia), Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept. (2006).
- 9) Researcher | Abir Maged Elbokami "**Some numerical methods for solving the continuous and discontinuous Volterra integral equations**" (Saudi Arabia) University Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept. (2008).
- 10) Researcher | Nefisa Ali Bakhsh "**Some Problems in the Thermo Elastic Plates**" (Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept. (2008).
- 11) Researcher | Jood Abdul-Aziz, : "**On Some Numerical Methods For Solving The Linear Integral Equations.**" Alex. Univ. Fac. of Sci., Department of Math. Dept. (2010).



12) Researcher | Amal Salem Mohamed, "**Homotopy and Adomian Method For Solving Linear Integral and Non Linear Integral Equation**" Alex. Univ. Fac. of Sci., Department of Math. Dept. (2011).

13)) Researcher | Mohsen Fayek" **Some Boundary Value Problems In Thermoelasticity**" Alex. Univ. Fac. of Sci., Department of Math. Dept. (2014).

14) Researcher | Eslam Hassan "Stochastic Models of Corcinogenesis" Alex. Univ. Fac. of Sci., Department of Math. Dept. (2014).

Second: Obtained Supervised PhDs:

15) Researcher | Rajab Omar Abdel Rahman "**On some problems For Fredholm Integral equations**" Tanta University. Works now in Damanhur University (1994).

16) Researcher | Issam Alsaïd KhirELdin "**On some methods for solving some singular integral equation**" Math. Dept. Tanta University. Works now in Damanhur University (1995).

17) Researcher | Naglaa Yusuf IzzELdin "**On some problems for some integro - differential equations and integral equations**" Alexandria. University. Works now Alexandria. University,(1995)

18) Researcher | Alaa Abdul Wahid Abdul Bari "**The singular integral equation in the theory of elasticity**", Zagazig University, (1998). Works in Arab Academy of Transport

19) Researcher | Mohammed Abdullah Darwish "**On some methods for solving linear and nonlinear integral equations**" Alexandria. University(2000), Works now in Damanhur University.

20) Researcher | Sawsan Abdul Hamid Mahmud "**On some problems of singular integral equations**" Alexandria. University,(2000).

21) Researcher | Farouk Ali Salama "**On some problems of integral equation for continuous and discontinuous kernel**" Alexandria University(2001).



- .22) Researcher | Iman Ibrahim Mohamed Dabs "**On some problems of linear and nonlinear integral equations**" Alexandria University,(2001).
- 23) Researcher | Abdul Karim Saleh Ali "**Numerical solutions for solving some singular integral equation**", Zagazig University,(2002).
- 24) Researcher | Afaf Husseini Nasr "**The solutions of some integral equations of the first and second kind with its application in mathematical physics**" Sci. Al-Azhar University(2004),.
- 25) Researcher | Ali Abdel-Moneim Abdel-Halim under Title: "**Integral and parametric forms with its analytic properties in potential theory**" Department of Phys. Dept. Sci. Fac. Zagazig University. (2005). Works in Arab Academy of Transport.
- 26) Researcher | Sameha Ali Raad "**Mixed integral equations and contact problems.**" (Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept., (2009).
- 27) Researcher | Samar Ali Asseeri "**On the solution of fundamental and torsion problems in the theory of elasticity using conformal mapping** "(Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept.,(2009). Works in King Abdulla City
- 28) Researcher | Sharifa Ali EL- Hazmy "**On some problems of integral equation in the theory of elasticity and its numerical solution.**" Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept.,(2009).
- 29) Researcher | Dalal Adnan Amer Mtuori "**Some spectral relationships for integral equation in contact problem in the theory of elasticity**" (Saudi Arabia) Umm Al-Qura Univ. Fac. of Applied Sci. Math. Dept.,(2009). Works in King Abdel-Aziz University
- 30) Researcher | Khadiga Mohamed Abu -Elnaga "**On some numerical treatment for some problems of Volterra Fredholm integral equations.**" (Saudi Arabia) King Abdel-Aziz University, (2010)
- 31) Researcher |Azhar Abd-Elrahman Jann" **On some problems for an elastic plate weakened by a hole and contact problems in the theory of elasticity**" (2011) Alexandria University,



32) Researcher | Mohamed Ibrahim Youssef "**On some stochastic integral equations and its applications**" Alexandria University(2014)

33) Researcher |Emad Awad "**On the generalized thermal lagging behavior**" Alexandria University, (2015).

Third: Advanced Researches with Applicants to obtain Assistant Professor and Professor as follow:

- 1)** Dr / Abdullah Ali Bader, Alexandria University Faculty of Science. Got the degree, assistant professor in (2014) and professor (2002)
- 2)** Dr/ Alaa Kamal Khamis, the Arab Academy for Maritime Transport. Got the degree , Ass. Prof. in (2002).
- 3)** Dr/ Salah Ahmed Mahmud, Faculty of Education, Alexandria University, Damanhur branch.
- 4)** Dr/ Alaa Abdel-Bari, Arab Academy for Maritime Transport. Got the degree, Ass. Prof. (2003)
- 5)** Dr/ Kamal Gharib, Faculty of Education, Alexandria University, Damanhur Branch.
- 6)** Dr/ Osama Mustafa Labib, Alexandria University Faculty of Science. Ass. Prof. (2007).
- 7)** Dr/ Iman Ibrahim Mohamed Dabs, Alexandria University, Faculty of Science.
- 8)** Dr/ Farouk Ali Salama, Alexandria University Faculty of Education.
- 9)** Dr/ Wagdi Gamma Elsaid, Alexandria University Faculty of Science. Prof. (2008)
- 10)** Dr/ Fathia Ahmed Hendi (Saudi Arabia), Faculty of girls Jeddah. Ass. Prof. (2005) and prof. 2012
- 11)** Dr/ Abdul Fattah Keree Bukhari (Saudi Arabia), Um Al-Qura University. Ass. Prof. (2005)
- 12)** Dr/ Gamal Abdel Kader Metwally, Al-Azhar University Faculty of Science. Prof. (2008)
- 13)** Dr/ Shaza Monaquel, King Abdul-Aziz University .Ass. Prof. (2010) and Prof. (2014).
- 14)** Dr/ Sameha Ali Raad, (Saudi Arabia), Um Al-Qura University. Ass. Prof.



15) Dr/ Aznar Abd el-rahman jaan , (Saudi Arabia), Um Al-Qura University. Ass. Prof

III- Scientific Journal (only of high factor):

البيانات الموجودة من واقع مواقع المجلات المعروفة حتى عام وفي تخصصه (معادلات تكاملية) ٢٠١٦

مسلسل	اسم المجلة	عدد المقالات المحكمة
1-	Franklin institute Journal.	8
2-	Computational and applied mathematics (CAM)	24
3-	Applied Mathematics and Computational	8
4-	Communication in Mathematics Physics	6
5-	Journal of Mechanical Science and Technology	4
6	Computational mathematics with applications,	5
7-	International J. of engineering and technology.	4
8-	Journal of pure and applied mathematics	7
9-	Journal of Calcutta	3
10-	Applied Mathematics Letter	5
11-	Journal of UAE.	4
12-	(vii) Journal of King Fahd for petrol and mining,	3
13-	Mathematical and computer modeling	3
14-	Reviewer in American Mathematical Society.	20

Others

- (1) Examined some scientific production in the United Arab Emirates
- (2) Examined some of the advanced projects in Saudi Arabia.
- (3) Examined some of the advanced mathematical problems with the agreement of the American University in Lebanon.



- (4) A lecturer in the celebration of the centennial of University of Calcutta in India as a personnel specialist in Integral equations (2004).
- (5) Invited once every two years to deliver a lecture in Belgium and the Netherlands.
- (6) Assigned to the Naval Academy science teaching in 1991 and was seconded to the Um Al-Qura University In 2002.
- (7) Was awarded the English NOP.
- (8) Got the membership of the Global Marques Committee in New Jersey State.
- (9) Was awarded the English NOP.
- (10) Got the membership of the Global Marques Committee in New Jersey State.
- (11) Classified as one of the twenty five top specialists in the world in the integral equations and contact problems (Classification in 2004-2008 in Elsevier).

IV- List of Scientific researches by the researcher:

- (1) H. El- Sirafy, M. A. Abdou, First and second fundamental problems of infinite plate a curvilinear hole, J. Math. Phys. Sci. India, Vol. 18, No2 (1984), 205- 214
- (2) S. M. Mkhitarian, M. A. Abdou, On various methods for solution of the Carleman integral equation, Dakl. Acad. Nauk Arm. SSR 89 (3) (1990) 125-129
- (3) S.M. Mkhitarian, M. A. Abdou, On different methods of solution of the integral equation for the planar contact problem of elasticity, Dak. Acal. Nauk Arm. SSR 89 (2) (1990)69-74
- (4) M. A. Abdou, Krein's method in the singular mixed problems, J. Qat Univ. Sci. 14 (1994) 20-25
- (5) M. A. Abdou, First and second fundamental problems for an elastic infinite plate with a curvilinear hole, Alex. Eng. J. Vol. 33 No. 4 (1994)1232-1241
- (6) M. A. Abdou, E.A. Khar Eldin, An infinite plate weakened by a hole having arbitrary shape J. Comp. Appl. Math. Vol. 56 (1994) 341- 351
- (7) M. A. Abdou, N. Y. Ezzeldin, Krein's method with certain singular kernel for solving the integral equation of the first kind, Per. Math. Hung. Vol. 28 No.2 (1994) 143- 149
- (8) M. A. Abdou, S.A. Hassan, Boundary value of contact problem. PU.M.A. 5 (3) (1999) 311-316



- (9) M. A. Abdou, R.O. Abdel-Rahman, Krein's method for solving the integral equation of the first kind with logarithmic kernel, *Qatar Univ. Sci.J.* Vol. 13 (1993)10-13
- (10) M. A. Abdou, A simple method to solve the functional differential equation, *J.pure and Appl. Sci. India* Vol. 12 (1993) 136-142
- (11) M. A. Abdou, N. Y. Ezzeldin, Integral equation in the plane contact problems, *Acad. Math. of India*, 46 (1994) 136-142-
- (12) M. A. Abdou, E.A. Khar Eldin" On the problem of stretched infinite plat weakened by a curvilinear hole, *J. pure and Appl. Math. Sci. India*, Vol. 14 (1994)106-118
- (13) M. A. Abdou, E.A. Kher-Eldin, Stretched infinite plate weakened by arbitrary curvilinear hole, *J. pure and Appl. Math. Sci. of India*, Vol. 14 (1994) 114- 122
- (14) M. A. Abdou, S. A. Hassan, On the problem of stretched plate weakened by inner curvilinear holes, *J. Math. Sci. of India*, Vol. 84 (1994) 112- 120
- (15) M. A. Abdou, Fredholm integral equation of the second kind with potential kernel, *J.Comp. Appl. Math.* Vol. 22 (1996) 161- 167
- (16) M. A. Abdou et al. Integral equation of three dimensions contact problem in a half space, *J. Far East. Math. Sci.* 112 (1997) 169-175
- (17) M. A. Abdou, S.A. Mahmud and M. A. Darwsh, A numerical method for solving Fredholm integral equation of the second kind, *Korean J.Appl. Math. Comp.* 5 (2) (1998) 251-259
- (18) M. A. Abdou, A. A. Badr, Boundary value problems of infinite plate weakened by a curvilinear hole, *J.India Acad. Sci.* 51 (1999) 155-167
- (19) M. H. Fahmy, M.A.Abdou and M. A. Darwsh, Integral equations and potential theoretic type integrals of orthogonal polynomials, *J. Comp. Appl. Math.* 106 (1999) 245-255 -
- (20) M. A. Abdou, F. A. Salama, Stress components for an infinite plate with a curvilinear hole, *J. India Acad. Sci.* 51 (1999) 176-188
- (21) M. A. Abdou, Integral equation and contact problem for a system of impressing stamps, *Appl. Math. Comput.* 106 (1999) 141-148
- (22) M. A. Abdou, S. A. Hassan, Fredholm integral equation with singular kernel, *Korean J.Appl. Math. Comp.* Vol. 7 (1) (2000) 223-236



- (23) M. A. Abdou, A. K. Khamis, On a problem of an infinite plate with a curvilinear hole having three poles and arbitrary shape, Bull. Call. Math. Soc. 92 (4) (2000) 309 -322
- (24) M. A. Abdou, A. K. Khamis, Fredholm- Volterra equations with hyper geometric kernel, Bull. Call. Math. Soc. 93 (1) (2000) 33- 45
- (25) M. A. Abdou, Fredholm integral equation with potential kernel and its structure resolvent, Appl. Math. Comput. 107 (2000) 169 -180
- (26) M. H. Fahmy, M.A.Abdou and E.L. Deebs, Fredholm Volterra integral equation of the first kind with potential kernel and Krein's method, Le Mathematic, Italy. Vol. LV (2000) Fasc. I, 74pp.55
- (27) M. A. Abdou, Integral equation with Macdonald kernel and its application to a system of contact problem, Appl. Math. Comput. 118 (2001) 83-94
- (28) M. A. Abdou, Spectral relationships for integral operators in contact problem of impressing stamps, Appl. Math. Comput. 118 (2001) 95-111
- (29) M. A. Abdou , A. A. El – Bary, Fundamental problems for infinite plate with a curvilinear hole having finite poles, Mathematical Problems in Engineering Volume 7 (2001), Issue 6, 485-501
- (30) M. A. Abdou, A. A. El – Bary, Fredholm-Volterra integral equation with potential kernel, Int. J. of Math. and Math. Sci. Vol. 26 (2001), Issue 6, 321-330
- (31) M. A. Abdou, On asymptotic in contact problems of Fredholm equation of the second kind, Korean J. Appl. Math. Comp. Vol. 9 No. 1 (2002) 261-276
- (32) M. A. Abdou, Fredholm – Volterra equation of the first kind and contact problem, Appl. Math. Compute. 125 (2002) 177- 193
- (33) M. A. Abdou, Fundamental problems for finite plate with a curvilinear hole having finite poles, Appl. Math. Comput. 125 (2002) 79-91
- (34) M.A.Abdou, Spectral relationships for the integral equation with Macdonald kernel and contact problem, Appl. Math. Comput. 125 (2002) 93-103
- (35) M. A. Abdou, Integral equation of mixed type and integrals of orthogonal polynomials, J. Comp. Appl. Math. 138 (2002) 273-285
- (36) M. A. Abdou and A. A. Badr, On a method for solving integral equation in the displacement contact problem, J. Appl. Math. Compute. 127 (2002) 65- 78



- (37) M. A. Abdou, Fredholm Volterra integral equation and generalized potential kernel, *Appl. Math. Compute.* 131 (2002) 81-87
- (38) M. A. Abdou, Khamis I. Mohamed, A.S.Ismail, Krein's method for solving the singular integral equation of the first kind, *Bull, Fac. Sci. Assuit Univ.* 31 (1C)(2002)37-47
- (39) M. A. Abdou, A. S. Sabbah, A. S. Ismail, An infinite plate with a Curvilinear hole and flowing heat, *Proc. Math Phys. Egypt*,34(2002)15-27.
- (40) M. A. Abdou, I. Mohamed Khamis, A. S. Ismail, Toeplitz matrix and product Nystrom methods for solving the singular integral equation Le Mathematiche, Vol. LV 11 (2002) Fascicolo 1 pp. 21-73.
- (41) M. A. Abdou, O. L. Mustafa, Fredholm -Volterra integral and contact problem, *Appl. Math. Compute.* 138 (2003) 199-215
- (42) M. A. Abdou, Fredholm – Volterra integral equation with singular kernel. *Appl. Math. Compute.* 137 (2003) 231-243
- (43) M. A. Abdou and M. Bassem, A numerical method of solving Fredholm integral equation of the second kind with Cauchy kernel, *j. Canadian physics* 7 (2003) 123-131
- (44) M. A. Abdou, On asymptotic method for Fredholm Volterra integral equation of the second kind 444– second kind in contact problems. *J. Comp. Appl. Math.* 154 (2003) 431
- (45) M. A. Abdou, On the solution of linear and nonlinear integral equation, *Appl. Math. Comput.* 146 (2003)857-871
- (46) M. A. Abdou, I. Mohamed Khamis, A. S. Ismail, On the numerical solutions of integral equations of mixed type, Vol. 12 Iss. 1-2. (2003) 165-182
- (47) M. A. Abdou, A. A. Nasr, On the numerical treatment of the singular integral equation of the second kind, *Appl. Math. Compute.* 149 (2003) 373-380
- (48) M. A. Abdou, F. A. Salama, Integral equations and contact problem, *Appl. Math. Comput.* 149 (2004) 735- 746
- (49) A. S. Sabbah, M. A. Abdou , A. S. Ismail, An Infinite Plate with a Curvilinear Hole and Flowing Heat ,*Mathematical and computational Applications* (2004), Vol.9,N 2, 321-332
- (50) M. A. Abdou, F.A. Salama, Thermoelastic Problem for an Infinite Plate with a Curvilinear Hole Having Finite Poles, *Mathematical and computational Applications* Vol.9 N 2 (2004), 237-248



- (51) M. A. Abdou, F. A. Salama, Volterra- Fredholm integral equation of the first kind and relationships, *Appl. Math. Compute.* 153 (2004) 141-153
- (52) M. A. Abdou, F. A. Hendi, Numerical solution for Fredholm integral equation with Hilbert kernel, *J.KSIAM* Vol.9, No.1 (2005) 111-123
- (53) M. A. Abdou, W. G. El Said, E. I. Deeb, "A solution of a nonlinear integral equation, *Appl. Math. Compute.* 160 (2005) 1-14
- (54) M. A. Abdou, G.M. Abd-el-Kader, Mixed type of Fredholm- Volterra integral equation, *Le Matematiche* Vol. LX (2005) 41-58
- (55) M. A. Abdou, A. Khamis, Integral equation of the first kind and spectral relationships, *KSIAM* Vol. 10 (2005) 342-350
- (56) M. A. Abdou, A. K. Khamis, Fredholm-Volterra integral equation with Carleman kernel, *Cal. Math. Soc.* 98 (5) (2006) 471- 480
- (57) M.M.EL-Borai, M.A. Abdou, M.M. El-Kojok, On a discussion of nonlinear integral equation of type Volterra –Fredholm, *J. KSIAM* Vol. 10 No.2, (2006) 59-83.
- (58) M. M. El-Borai, M. A. Abdou, M. B. Soliman – An analysis of two dimensional integral equation of the second kind, *Le Matematiche* Vol. LXII (2007) 15- 39
- (59) M. A. Abdou, Abdul Fattah, A. K. Bukhari, Mixed integral equation with logarithmic kernel, *KSIAM* Vol.11(2007) 324-331
- (60) M. A. Abdou, S. A. Aseeri, Closed forms of Gaursat functions in presence of heat for curvilinear holes. A Paper Presented on the Sixth International Elasticity Conference, USA, (2007).
- (61) M. A. Abdou, S. A. Aseeri, Fourier integral Transform and Contact Problem, Presented in " The Second Conference on Mathematical sciences CMS Zarqa Private University (2008).
- (62) M. M. El-Borai, M. A. Abdou, A. A. Badr, M. B. Soliman, Singular nonlinear integral equation and its application in viscoelastic nonlinear material. *Int. J. of Appl. Math. Mech.* Vol.4 (2008) 56-77
- (63) M. A. Abdou, G. M. Abd Al-Kader, Mixed type of integral equation with potential kernel, *Turk J. Math.* 32 (2008) 83-101.
- (64) M. A. Abdou, A. A. Badr, M. B. Soliman, Chebyshev Polynomials and Fredholm-Volterra integral equation, *Int. J. Appl. and Mech.* Vol.4 (2008), 78-92.



- (65) M. A. Abdou, M. M. EL-Borai, M. M. El-Kojok, Toeplitz matrix method and nonlinear integral equation of Hammerstein type, *J. Comp. Appl. Math.* Vol. 223, (2009) 765 – 776
- (66) M. A. Abdou, S. A. Asseri, Goursat functions for an infinite plate with a generalized curvilinear hole in zeta plane, *Appl. Math. Compute.* 212 (2009) 23-36
- (67) M. A. Abdou, S. A. Asseri, Closed forms of Goursat functions in presence of heat for curvilinear holes, *J. Thermal stress*, Vol.32, (2009) 83 - 101
- (68) M. A. Abdou, S. A. Raad, Mixed integral equation in position and time with weakly kernels. *JAMM* 2 (2)(2010) 37-47.
- (69) M.A. Abdou, M.B. Soliman, A main theorem of spectral relationships for Volterra - Fredholm integral equation of the first kind and its applications, Published online 19 January 2010 in Wiley Inter Science Math. Meth. Appl. Sci.
- (70) M. A. Abdou, A. A. Badr, M. M. El-Kojok, On the solution of mixed nonlinear integral equation, *Appl. Math. Comput.* 217(2011) 5466-5475
- (71) M. A. Abdou, S. J. Monaquel, Integro differential equation and fundamental problems of an infinite plate with a curvilinear hole having a strong pole, *Int. J. Contemp. Math. Sciences*, Vol. 6, (2011), no. 4 199 - 208
- (72) M. A. Abdou, S. J. Monaquel, An integral method to determine the stress components of stretched infinite plate weakened by a curvilinear hole, *IJRAS* Vol. 6 (3). February (2011)353-358
- (73) M. A. Abdou, S. J. Monaquel, Cauchy integral method and an infinite plate with a hole conformally mapped inside a unit circle, *Far East J. Appl. Math.* 50(1) (2011) 57-67
- (74) M. A. Abdou, A. A. Badr, M. B. Soliman, On a method for solving a two dimensional nonlinear integral equation of the second kind, *J. CAM*, 235 (2011) 3589-3598
- (75) M. A. Abdou, I. L. El-Kalla, A. M. Al-Bugami, Adomian Decomposition method and the nonlinear two-dimensional Volterra integral equation, *Theoretical Mathematics & Applications*, © International Scientific Press, 2011
- (76) M. A. Abdou, I. L. El-Kalla, A. M. Al-Bugami, New approach for convergence of the series solution to a class of nonlinear Hammerstein integral equations, *International journal of Computer Mathematics*, 27-Jan(2011)1-12



- (77) M. A. Abdou, I. L. El- Kalla, A. M. Al-Bugami, *Numerical solution for Volterra-Fredholm integral equation with a generalized singular kernel*, J. Modern Methods in Numerical Mathematics. ISSN: 2090-4770 (2011)1-15
- (78) M. A. Abdou, Y. A. Jaha, Gaursat function for an elastic plate weakened by a curvilinear hole in the presence of heat, IJRRAS 6 (3) • February 2011 pp 325- 335
- (79) M. A. Abdou, S. J. Monaquel, Krein's method and Volterra – Fredholm integral equation, Int. J. Contemp. Math. Sciences, Vol. 7, 2012, no. 14, 657 – 671
- (80) M.A. Abdou, F. A. Hendi , M. Abu Alnaja, Computational method for solving mixed linear integral equation, Int. J. of Num. Meth. And Appl.Vol.7, Num.2 (2012)65-106
- (81) M .A. Abdou, F. A. Hendi, M. Abu Alnaja, Computational method for solving Volterra-Fredholm integral equation with singular Volterra kernel, Far East J. of Appl. Math. Vol. 72, No. 1 (2012) 23-40.
- (82) M.A. Abdou, M. Abu Alnaja, Fredholm-Volterra integral equation of the first kind and contact problem, Far East J. of Appl. Math. Vol. 64, No. 1 (2012) 53-74
- (83) M.A. Abdou, M. Abu Alnaja, On a method for solving Fredholm-Volterra integral equation with Cauchy kernel, Far East J. of Appl. Math. Vol. 64, No. 2 (2012) 103-116
- (84) M. A. Abdou, F. S. Bayones, Integro – differential equation and an infinite elastic plate with a curvilinear hole in S-plane, IJRRAS 10 (3) March (2012)1-10
- (85) M. A. Abdou, M. El-Kojak, S. A. Raad, Analytic and numeric solution of linear partial differential equation of fractional order, Global J. and Decision science. Ins. (USA) vol. 13 Issue 3 Version 10 (2013)57-71.
- (86) M.A. Abdou, I. H. El-Sirafy, A. Jaan, Computational of Gaursat functions for infinite elastic plate weakened by a curvilinear hole, Inter. J. Appl. Math (IJAM), Accepted 2013.
- (87) A. K Kamis, M.A. Ismail, M. A. Abdou, A. M. Al-Bougami, Mixed integral equation with Cauchy kernel and contact problem, Life science 2013: 10(3) 1208-1215.
- (88), M.A. Ismail, A. K Kamis, M. A. Abdou, The eigenvalues and eigenfunctions of mixed integral equation using Toeplitz matrix method, Life science 2013: 10(3) 1508-1515.
- (89) M. M. El- Borai, M. A. Abdou, M. I. Youssef, On Adomain Decomposition Method for solving nonlocal perturbed stochastic fractional integro differential equation, J. life sci. 2013:10 (4) 550-555.



- (90) M. M. El- Borai, M. A. Abdou, M. I. Youssef, On some perturbed random fractional integro differential equation, life science J. 2013: 10(4) 1601-1609
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المشاريع البحثية والابحاث المرتبطة بالمشاريع التي تم تحكيمها دوليا

التحكيم: يذكر فقط تحكيم المشاريع وابحاث المشاريع خارج جمهورية مصر العربية

1-عنوان البحث/الرسالة/وجهة	Analytical method for solving linear Fredholm fuzzy integral equations of the second kind (Comput. Matm . Appl. 2010)
2-عنوان البحث/الرسالة	A Taylor expansion approach for numerical solution of nonlinear Volterra integro-differential equations (Comput. Math . Appl. 2011)
3-عنوان البحث/الرسالة	Analytical method for solving linear Fredholm fuzzy integral equations of the second kind(Compute. Math . Appl. 2011)
4-عنوان البحث/الرسالة	New results for the accelerated Adomian polynomials for solving integral equations of mixed type (Compute. Math . Appl. 2011)
5-عنوان البحث/الرسالة	An efficient method for solving a linear Volterra integral equation with weak singular kernel (Compute. Phy. 2010)
6-عنوان البحث/الرسالة	Existence of solutions for anti-periodic boundary value problems of nonlinear impulsive functional integro-differential equations of mixed type. EN (English Summary R. A. M. 2010)
7-عنوان المشروع	Application of a fractional steps method for the numerical solution of the shallow water waves in a rotating cylindrical basin - معهد البحوث العلمية - جامعة أم القرى (2010)
8-عنوان المشروع	الجيروسكوبات المتماثلة حرارة عزوم اللي مع تغير عزوم القصور الذاتي (2010) معهد البحوث العلمية - جامعة أم القرى
9-عنوان المشروع	حساب الخطأ لحل المعادلات التفاضلية ذات الرتب الكسرية معهد البحوث العلمية - جامعة أم القرى (2010)
10-عنوان البحث	Numerical solution of special class of system of nonlinear Volterra integro differential equations by a simple method (R.A.M.2009)



11-عنوان البحث/الرسالة New algorithm for second-order boundary value problems of integro-differential equation . (R.A. M.2009)
12-عنوان البحث/الرسالة Convergence of Runge-Kutta methods for neutral Volterra delay-integro-differential equations. (R.A. M.2009)
13-عنوان البحث/الرسالة Homotopy perturbation approach to solve diffusion- convection problems (J. Franklin Institute -2008)
14-عنوان البحث/الرسالة Convergence of spline collocation for Volterra integral equations (Appl. Num. Math.2008)
15-عنوان البحث/الرسالة Monte Carlo algorithm for obtaining Eigenvalue based on integral equations (R. A. M. 2008)
16-عنوان البحث/الرسالة On a fractional integral equation of periodic functions involving Weyl-Riesz operator in Banach Algebras .(R. A. M. 2010)
17-عنوان البحث/الرسالة Travelling wave solutions of the Cahn-Allen equation by using first integral method (Appl. Math. Comput. 2013)
18-عنوان البحث Numerical treatment of second kind Fredholm integral equations systems on bounded intervals (R. A. M. 2013)
19-عنوان البحث/الرسالة Numerical expansion methods in the solution of systems of Fredholm-Volterra type linear integral equations by means of interpolation and quadrature rules (J. Franklin 2014)
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25-عنوان البحث/الرسالة Super convergence of collocation methods for a class of weakly singular Volterra integral equations (CAM 2014)
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٢٧-عنوان البحث/الرسالة	بعض الطرق العددية لحل معادلة تفاضلية جزئية غير خطية كلية البنات - جدة-٢٠٠٧
٢٨-عنوان البحث/الرسالة	حول معادلة كورتج دي فاج في بعض مسائل المرونة جامعة الملك عبدالعزيز-جدة ٢٠٠٧
٢٩-عنوان البحث/الرسالة	حوا بعض مسائل الانعكاس الحراري في المواد الرجاجية جامعة ام القرى – مكة المكرمة ٢٠٠٥
٣٠-عنوان البحث/الرسالة	المعادات التفاضلية الجزئية غير الخطية و استخدامها في نظرية الكم جامعة ام القرى – مكة المكرمة ٢٠٠٥
٣١-عنوان البحث/الرسالة	مسألة بينارد في المواقع اللزجة جامعة ام القرى – مكة المكرمة ٢٠٠٥
٣٢-عنوان البحث/الرسالة	On some initial value problems for nonlinear differential equations in Banach space (جامعة ام القرى – مكة المكرمة ٢٠١١)
الجوائز	
١-اسم الجائزة والجهة المانحة:	(٢٠٠٣) New Jersey State -The Global Marques
٢-اسم الجائزة والجهة المانحة	(٢٠٠٢)The English NOP- NOP
المشاريع التي قام بتنفيذها خارج مصر بصفة باحث رئيسي	
(١) اسم المشروع	دراسة الضغط علي انبيب البترول
الجهة المستفيدة والممولة والمدة:	شركة سابك ومركز ابحاث ام القرى(يناير ٢٠٠٥ - يوليو ٢٠٠٦)
الدور العلمي المهام:	وضع المعادلة التكاملية الازمة لايجاد الضغط علي الانابيب ثم حساب اكبر ضغط يمكن ان نصل اليه.
المرجع:	مركز الابحاث بجامعة ام القرى.
(٢)اسم المشروع	ايجاد مرکبات الالتواء والحرارة علي فتحة عشوائية في مستوى من
الجهة المستفيدة والممولة والمدة:	مركز ابحاث ام القرى (يناير ٢٠٠٧ - يوليو ٢٠٠٨)
الدور العلمي المهام:	ايجاد دالتي الالتواء علي فتحة عشوائية معلقة لجسم منن باستخدام رواسم ناقلة ثم حساب الحرارة النهائية



مدیر مركز الابحاث ام القری	المرجع:
حساب المتغيرات المركبة علي فتحات دائيرية	(3) اسم المشروع
مركز ابحاث ام القرى (يناير ٢٠٠٨ - يوليو ٢٠٠٩)	الجهة المستفيدة والممولة والمدة:
ايجاد دالتي ضغط على فتحة دائيرية مغلقة لجسم مرن باستخدام رواسم ناقلة و هذه الرواسم تعطي اشكال مختلفة لفتحة مثل الدائرة ، القطع الناقص ، الشكل الهلالي و خلافه	الدور العلمي المهام:
مدیر مركز الابحاث ام القری	المرجع:
استخدام دالة الجهد في ايجاد التواء الانابيب .	(4) اسم المشروع
مركز ابحاث ام القرى بمكة المكرمة(يناير ٢٠٠٩ إلى يوليو ٢٠١٠)	الجهة المستفيدة والممولة والمدة :
وضع المعادلات الاساسية لاجسام مرنة التوت نتيجة ضغوط و قوي خارجية اثرت عليها وهذه الاجسام يمكن ان تكون دائيرية المقطع او ممتدة	الدور العلمي المهام
مدیر مركز الابحاث ام القرى	المرجع
القيم الذاتية والدوال الذاتية لمعادلة مختلطة باستخدام طريقة المصروفات المترافقية	(5) اسم المشروع
جامعة عرعر مركز ابحاث الجامعة بالمنطقة الشمالية(فبراير ٢٠١٢ - فبراير ٢٠١٣)	الجهة المستفيدة والممولة والمدة:
وضع المعادلة التكاملية اللازمة وكيفية ايجاد الحل عدديا	الدور العلمي المهام:
العلاقات الطيفية لمعادلة تكاملية مختلطة	(6) اسم المشروع
جامعة عرعر مركز ابحاث الجامعة بالمنطقة الشمالية(مارس ٢٠١٢ - مارس ٢٠١٣)	الجهة المستفيدة والممولة والمدة:
وضع المعادلة التكاملية اللازمة مع اثبات وجود الحل وحلها	الدور العلمي المهام:



مشاريع خارجية تم الموافقة عليها

"تأثير التفاضلات الكسرية للزمن على بعض مواد المرونة وتأثير مجال كهرومغناطيسي"

(7) اسم المشروع :

جامعة عرب مركز ابحاث الجامعة بالمنطقة الشمالية(مايو ٢٠١٤ إلى مايو ٢٠١٥)

الجهة المستفيدة والممولة والمدة:

"حل معادلة تكاملية مختلطة في مسألة الاتصال"

(8) اسم المشروع :

جامعة عرب مركز ابحاث الجامعة بالمنطقة الشمالية(مايو ٢٠١٤ إلى مايو ٢٠١٥)

الجهة المستفيدة والممولة والمدة:

لأنشطة و مساهمات أخرى: جميع الانشطة العلمية على المستوى الدولي

تطوير برنامج الدكتوراه- كلية البناء جامعة ام القرى-

١- اسم النشاط والجهة المستفيدة:

عضو اللجنة الثلاثية لوضع برنامج الدكتوراه

دور المتقدم:

امين اللجنة وواضع الخطط التطويرية للدكتوراه من مناهج دراسية و اسس علمية للنشر باللغة الانجليزية ومسايرة الاوضاع العلمية ببعض الجامعات الكبرى

تفاصيل الدور و مهام المتقدم:

مركز ابحاث ام القرى جامعة ام القرى بمكة المكرمة

٢- اسم النشاط و الجهة المستفيدة

عضو لجنة مركز الباحث بجامعة ام القرى

دور المتقدم:

فحص الابحاث المقدمة من المملكة العربية السعودية للحصول علي تمويل مادي ثم اقرار لجنة التحكيم الخاصة بكل بحث

تفاصيل الدور و مهام المتقدم:

نحوات حول تطوير التعليم- جامعة ام القرى

٣- اسم النشاط و الجهة المستفيدة

محاضر ومنظم الندوة

دور المتقدم:

القى اكثر من عشرين محاضرة حول تطوير التعليم و المناهج التدريسية بما يتواءل مع ا و لتطور منظمات الأيزو العالمية و تم تطبيق كثير من هذه المقترنات بجامعة ام القرى

تفاصيل الدور و مهام المتقدم:

تطوير مناهج التعليم بكالريوس و دراسات عليا- جامعة ام القرى

٤- اسم النشاط و الجهة المستفيدة

امين لجنة تطوير علوم الرياضيات بجامعة ام القرى (طلاب دنيا و دراسات عليا)

دور المتقدم:



امين اللجنة العلمية ومؤسس البرامج الحديثة لعلم الرياضيات تطوير المناهج التدريسية وتعديل الساعات المعتمدة لطلاب وطالبات البكاليريوس ثم وضع الخطة الشاملة لطلاب الدراسات العليا

تفاصيل الدور و مهام المتقدم:

الاسم/ محمد عبد الله احمد عبد
التوقيع/