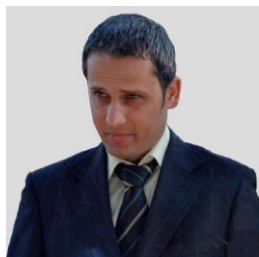


Detailed Curriculum Vitae

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Doctor of Philosophy in Applied Mathematics

PhD



MSc



BSc



Scopus Scopus Identifier Author Detail

Total Citations	2000
h-index	28
Total Publications	65



Highly Cited Researchers in Jordan Powered by Google Scholar

Rank Over All Specializations	18
Rank Over Mathematics Specialization	3
Total Citations	3063
h-index	35
i10-index	57
Total Publications	70



Identifiers


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Personal Data	Place of Birth	Ma'daba, Jordan	Nationality	Jordanian
	Date of Birth	29 th December 1973	Nationality Number	9731002090
	 Marital Status	Married	Gender	Male
	No. of National Database	2633	Years of Experience	11

Websites	Google Scholar	http://scholar.google.com/citations?user=T4qYuBMAAAAJ
	ResearchGate	https://www.researchgate.net/profile/Omar_Abu_Arqub?ev=hdr_xprf
	Scopus	https://www.scopus.com/authid/detail.uri?authorId=55372355400
	ORCID	http://orcid.org/0000-0001-9526-6095
	Thomson Reuters	http://www.researcherid.com/rid/G-3943-2017
	Microsoft Academic	https://academic.microsoft.com/#/profile
	Scienceopen	https://www.scienceopen.com/user/bfd4c51f-8736-4253-8cbc-ca5760c3dfc2
	Kudos	https://www.growkudos.com/profiles/139548
	Loop	https://loop.frontiersin.org/people/264505/overview
	Peerus	https://app.peer.us/index.html#/dashboard/category/339246/flux/1241591/paper/1307977?_k=wpj3fc
	Publons	https://publons.com/author/918547
	LiveDNA	http://livedna.net/?dna=962.16095
	Academia	https://al-balqa.academia.edu/omarabuarqub
	LinkedIn	https://www.linkedin.com/in/omar-abu-arqub-5695a533/
	 Wikipedia	https://en.wikipedia.org/wiki/Residual_power_series_method
Twitter	https://twitter.com/omarabuarqub	
Facebook	https://web.facebook.com/o.abuarqub?_rdr	

Statistics	No. of Publications	70 Impacted ISI research papers	No. of Citations	3063
	No. of Journals	32 Various Impacted ISI journals	h-index Measure	35
	No. of Co-authors	36	i10-index Measure	57



Qualifications	2008	PhD in Applied Mathematics, The University of Jordan, Jordan
	2002	Msc in Applied Mathematics, The University of Jordan, Jordan
	1996	BSc in Mathematics, Mutah University, Jordan

Specialization	My specialization in between the following fields:
	<ul style="list-style-type: none"> • Numerical Analysis • Computational Optimization

Research Interest	My research interests focus on the following subjects
	<ul style="list-style-type: none"> • Computational Optimization • Numerical Analysis • Fuzzy Calculus Theory • Fractional Calculus Theory • Optimal Control Theory • Stochastic Calculus Theory

Research Plan I have been described as responsible, hardworking, and enjoy teaching student and publishing papers. I prefer to work in education and research fields, where my performance can be measured with some accuracy. I would like to think that, I am an ambitious person and hardworking, yet realistic about my chances of completing a task successfully.

Future • My future research plans are to develop models and tools in the area of integrable and differentiable systems. It is to find powerful and direct methods to the search of explicit solutions to nonlinear partial differential equations including exact wave and soliton solutions of crisp, fuzzy, and fractional order derivative.

Present • I proposed, constructed, and proved the analytical convergence for a new analytical expansion method, so called, the residual power series, for finding and approximating the analytical exact solutions for huge problems in mathematics, engineering, economic, and physics.
(Please see the link: https://en.wikipedia.org/wiki/Residual_power_series_method)

• I proposed, constructed, and proved the statistical convergence for a new optimization method, so called, the continuous differential evolution, for finding and predicting the numerical optimal analytical solutions for a huge problems in mathematics, engineering, economic, and physics.

Financial and Technical Support	<ul style="list-style-type: none"> • I got and received financial support for my project entitled "Numerical solutions of singularly perturbed differential equations using reproducing kernel Hilbert space method" in partnership with other researchers for the academic year 2017/2018 from the Deanship of Scientific Research at the University of Jordan, Amman, Jordan. • I submitted a research project in partnership with other researchers of the next two years about the development of new models for the renewable and clean energy to the
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	Ministry of Higher Education & Scientific Research, Amman, Jordan (its status now is under review).
Lead Special Issues	I am the lead guest editor for the following special issues:
I:	<p>Title: Fuzzy Calculus Theory and its Applications Journal: Complexity Publisher: Wiley and Hindawi Impact Factor: 3.514 Country: USA Year: 2017</p> <p>Thomson link: http://ip-science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=1076-2787 Website: https://www.hindawi.com/journals/complexity/si/469347/cfp/</p>
 	
II:	<p>Title: Computational Optimization in Differential Equations: Algorithms and Applications Journal: International Journal of Differential Equations Publisher: Hindawi Impact Factor: Thomson Reuter Country: England Year: 2018</p> <p>Thomson link: http://mjl.clarivate.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=1687-9643 Website: https://www.hindawi.com/journals/ijde/si/403505/cfp/</p>
	
III:	<p>Title: New Trends in Systems Engineering and Integration Journal: Advances in Mechanical Engineering Publisher: SAGE Impact Factor: 0.827 Country: England Year: 2018</p> <p>Thomson link: http://mjl.clarivate.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Full=Advances%20in%20Mechanical%20Engineering Website: http://journals.sagepub.com/page/ade/call-for-papers/special-issues/systems-engineering</p>
	
Guest Special Issues	I am the guest editor for the following special issue:
I:	<p>Title: Bi-Fuzzy, Random-Fuzzy, Fuzzy-Rough, and Type 2 Fuzzy Optimization Systems: Theory and Applications Journal: Advances in Fuzzy Systems Publisher: Hindawi Impact Factor: Thomson Reuter Country: England Year: 2018</p> <p>Thomson link: http://mjl.clarivate.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=1687-7101 Website: https://www.hindawi.com/journals/afs/si/913587/cfp/</p>
	
Special Session	I am the chair for the following session:
I:	<p>Title: Fuzzy Calculus Theory and Its Applications Conference: The International Conference on Engineering & MIS 2017 Organizer: International Association of Researchers (IARES) Country: Tunisia Sponsor: IEEE Tunisia and Monastir University Conference Time: 08-10 May, 2017 Conference link: http://www.iares.net/Conference/ICEMIS2017</p>
	
II:	<p>Title: Fractional Calculus of Variations: Theories, Applications, and Numerical Solutions Conference: The International Conference on Fractional Differentiation and its Applications Country: Jordan Organizer & Sponsor: The University of Jordan and Scientific Research Support Fund Conference Time: 16-18 July 2018 Conference link: http://conferences.ju.edu.jo/en/icfda2018/Home.aspx</p>
	



Academic Preparation	<p>2003 – 2008: PhD Student</p> <p>1999 – 2002: Msc Student</p> <p>1992 – 1996: BSc Student</p>	<p>Thesis Title Numerical Solution of Fuzzy Differential Equations Area: Applied Mathematics</p> <p>Thesis Title: Some Solutions of a Class of Partial Differential Equations with Variable Coefficients and Related Principles Area: Applied Mathematics</p> <p>Project Title: Solving Singularly Perturbed Differential Equations</p>
Work Experience	<p>From September 2018</p> <p>From September 2017 to August 2019</p> <p>September 2013 to September 2017</p> <p>January 2008 to September 2013</p> <p>September 2005 to August 2008</p> <p>September 2003 to August 2005</p> <p>September 1996 to August 1999</p>	<p>Professor of Applied Mathematics, Department of Mathematics, Faculty of Science, The University of Jordan, Jordan</p> <p>Professor of Applied Mathematics, Department of Mathematics, Faculty of Science, Al-Balqa Applied University, Jordan</p> <p>Associate Professor of Applied Mathematics, Department of Mathematics, Faculty of Science, Al-Balqa Applied University, Jordan</p> <p>Assistance Professor of Applied Mathematics, Department of Mathematics, Faculty of Science, Al-Balqa Applied University, Jordan</p> <p>Teaching Assistance, Department of Mathematics, Faculty of Science, The University of Jordan, Jordan</p> <p>Assistantship, Department of Mathematics, Faculty of Science, The University of Jordan, Jordan</p> <p>Mathematics Teacher, Ministry of Education, Amman, Jordan</p>
Administrative Work	<p>June 2017 to September 2017</p>	<p>Head of the Department of Mathematics, Faculty of Science, Al-Balqa Applied University, Jordan</p>
Membership	<p>I am a membership in Professional Organizations</p> <ul style="list-style-type: none"> • International Rough Set Society, Poland: Since 2011 • Iranian Fuzzy Systems Society, Iran: Since 2011 • International Society of Structural and multidisciplinary Optimization, USA: Since 2017 • Foundations of Computational Mathematics, USA: Since 2016 • Qatar Mathematical Society, Qatar: Since 2016 • Queens' Maths Society, UK: Since 2016 • Fractional Calculus and Application Group, Egypt: Since 2014 • Jordan Research Group in Applied Mathematics, Jordan: Since 2012 • International Association of Computer Science and Information Technology, China: Since 2011 • International Association of Engineers and Scientists, China: Since 2013 • International Association of Engineers, China: Since 2013 • International Society for Development and Sustainability (ISDS): Japan 	
Puplications	<p>All the following listed puplications not extracted from any Msc or PhD thesis:</p> <ul style="list-style-type: none"> • Omar Abu Arqub, Mohammed Al-Smadi, Shaher Momani, Application of reproducing kernel method for solving nonlinear Fredholm-Volterra integrodifferential equations, Abstract and Applied Analysis 2012 (2012) 1-16 • Ahmad El-Ajou, Omar Abu Arqub, Shaher Momani, Homotopy analysis method for second-order boundary value problems of integrodifferential equations, Discrete Dynamics in Nature and Society 2012 (2012) 1-18 • Omar Abu Arqub, Zaer Abo-Hammour, Shaher Momani, Nabil Shawagfeh, Solving singular two-point boundary value problems using continuous genetic algorithm, Abstract and Applied Analysis 2012 (2012) 1-25 • Omar Abu Arqub, Ahmad El-Ajou, Shaher Momani, Nabil Shawagfeh, Analytical solutions of fuzzy initial value problems by HAM, Applied Mathematics & Information Sciences 7 (2013) 1903-1919 • Omar Abu Arqub, Mohammed Al-Smadi, Nabil Shawagfeh, Solving Fredholm integro-differential equations using reproducing kernel Hilbert space method, Applied Mathematics and Computation 219 (2013) 8938-8948 	

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- **Omar Abu Arqub**, Zaer Abo-Hammour, Ramzi Al-Badarneh, Shafer Momani, A reliable analytical method for solving higher-order initial value problems, *Discrete Dynamics in Nature and Society* 2013 (2013) 1-12
- **Omar Abu Arqub**, Ahmad El-Ajou, Ahmad Bataineh, Ishaq Hashim, A representation of the exact solution of generalized Lane-Emden equations using a new analytical method, *Abstract and Applied Analysis* 2013 (2013) 1-10
- Nabil Shawagfeh, **Omar Abu Arqub**, Shafer Momani, Analytical solution of nonlinear second-order periodic boundary value problem using reproducing kernel method, *Journal of Computational Analysis and Applications* 16 (2013) 750-762
- **Omar Abu Arqub**, Zaer Abo-Hammour, Shafer Momani, Application of continuous genetic algorithm for nonlinear system of second-order boundary value problems, *Applied Mathematics & Information Sciences* 8 (2014) 235-248
- **Omar Abu Arqub**, Zaer Abo-Hammour, Numerical solution of systems of second-order boundary value problems using continuous genetic algorithm, *Information Sciences* 279 (2014) 396-415
- Mohammed Al-Smadi, **Omar Abu Arqub**, Ahmad El-Ajou, A Numerical Iterative Method for Solving Systems of First-Order Periodic Boundary Value Problems, *Journal of Applied Mathematics* 2014 (2014) 1-10
- **Omar Abu Arqub**, Ahmad El-Ajou, Zeyad Al Zhou, Shafer Momani, Multiple Solutions of Nonlinear Boundary Value Problems of Fractional Order: A New Analytic Iterative Technique, *Entropy* 16 (2014) 471-493
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- Shafer Momani, **Omar Abu Arqub**, Tasawar Hayat, Hamed Al-Sulami, A computational method for solving periodic boundary value problems for integro-differential equations of Fredholm-Volterra type, *Applied Mathematics and Computation* 240 (2014) 229-239
- Banan Maayah, Samia Bushnaq, Shafer Momani, **Omar Abu Arqub**, Iterative multistep reproducing kernel Hilbert space method for solving strongly nonlinear oscillators, *Advances in Mathematical Physics* 2014 (2014) 1-7
- **Omar Abu Arqub**, Mohammed Al-Smadi, Numerical algorithm for solving two-point, second-order periodic boundary value problems for mixed integro-differential equations, *Applied Mathematics and Computation* 243 (2014) 911-922
- **Omar Abu Arqub**, Shafer Momani, Mamoun Abu Hammad, Shafer Momani, A residual power series technique for solving systems of initial value problems, *Applied Mathematics & Information Sciences* 243 (2014) 911-922
- Zaer Abo-Hammour, **Omar Abu Arqub**, Othman Alsmadi, Shafer Momani, Ahmed Alsaedi, An Optimization Algorithm for Solving Systems of Second-Order Singular Boundary Value Problems, *Applied Mathematics & Information Sciences* 8 (2014) 2809-2821
- **Omar Abu Arqub**, An iterative method for solving fourth-order boundary value problems of mixed type integro-differential equations, *Journal of Computational Analysis and Applications* 18 (2014) 857-874
- Ahmad El-Ajou, **Omar Abu Arqub**, Shafer Momani, Approximate analytical solution of the nonlinear fractional KdV-Burgers equation: a new iterative algorithm, *Journal of Computational Physics* 293 (2015) 81-95
- **Omar Abu Arqub**, Ahmad El-Ajou, Shafer Momani, Construct and predict solitary pattern solutions for nonlinear time-fractional dispersive partial differential equations, *Journal of Computational Physics* 293 (2015) 385-399
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- **Omar Abu Arqub**, Shafer Momani, Saleh Al-Mezel, Marwan Kutbi, Existence, uniqueness, and characterization theorems for fuzzy integrodifferential equations of Volterra type, *Mathematical Problems in Engineering* 2015 (2015) 1-13
- Ahmad El-Ajou, **Omar Abu Arqub**, Shafer Momani, Dumitru Baleanu, Ahmed Alsaedi, A novel expansion iterative method for solving linear partial differential equations of



- fractional order, *Applied Mathematics and Computation* 257 (2015) 119-133
- Ahmad El-Ajou, **Omar Abu Arqub**, Mohammed Al-Smadi, A general form of the generalized Taylor's formula with some applications, *Applied Mathematics and Computation* 256 (2015) 851-859
 - **Omar Abu Arqub**, Mohammed Al-Smadi, Shaher Momani, Tasawar Hayat, Numerical solutions of fuzzy differential equations using reproducing kernel Hilbert space method, *Soft Computing* 20 (2015) 3283-3302
 - **Omar Abu Arqub**, Reproducing kernel algorithm for the analytical-numerical solutions of nonlinear systems of singular periodic boundary value problems, *Mathematical Problems in Engineering* 2015 (2015) 1-13
 - Shaher Momani, **Omar Abu Arqub**, Asad Freihat, Mohammed Al-Smadi, Analytical approximations for Fokker-Planck equations of fractional order in multistep schemes, *Applied and Computational Mathematics* 15 (2016) 319-330
 - Shaher Momani, **Omar Abu Arqub**, Saleh Al-Mezel, Marwan Kutbi, Existence and uniqueness of fuzzy solution for the nonlinear second-order fuzzy Volterra integrodifferential equations, *Journal of Computational Analysis and Applications* 21 (2016) 213-227
 - Iryna Komashynska, Mohammed Al-Smadi, **Omar Abu Arqub**, Shaher Momani, An Efficient Analytical Method for Solving Singular Initial Value Problems of Nonlinear Systems, *Applied Mathematics & Information Sciences* 10 (2016) 647-656
 - Mohammed Al-Smadi, Asad Freihat, Ma'mon Abu Hammad, Shaher Momani, **Omar Abu Arqub**, Analytical approximations of partial differential equations of fractional order with multistep approach, *Journal of Computational and Theoretical Nanoscience* 13 (2016) 7793-7801
 - Morad Ahmad, Shaher Momani, **Omar Abu Arqub**, Mohammed Al-Smadi, Ahmed Alsaedi, An efficient computational method for handling singular second-order, three points Volterra integrodifferential equations, *Journal of Computational and Theoretical Nanoscience* 13 (2016) 7807-7815
 - Samia Bushnaq, Banan Maayah, Shaher Momani, **Omar Abu Arqub**, Mohammed Al-Smadi, Ahmed Alsaedi, Analytical simulation of singular second-order, three points BVPs for Fredholm operator using computational kernel algorithm, *Journal of Computational and Theoretical Nanoscience* 13 (2016) 7816-7824
 - **Omar Abu Arqub**, The reproducing kernel algorithm for handling differential algebraic systems of ordinary differential equations, *Mathematical Methods in the Applied Sciences* 39 (2016) 4549-4562
 - Mohammed Al-Smadi, **Omar Abu Arqub**, Nabil Shawagfeh, Shaher Momani, Numerical investigations for systems of second-order periodic boundary value problems using reproducing kernel method, *Applied Mathematics and Computation* 291 (2016) 137-148
 - **Omar Abu Arqub**, Approximate solutions of DASs with nonclassical boundary conditions using novel reproducing kernel algorithm, *Fundamenta Informaticae* 146 (2016) 231-254
 - **Omar Abu Arqub**, Banan Maayah, Solutions of Bagley-Torvik and Painlevé equations of fractional order using iterative reproducing kernel algorithm, *Neural Computing & Applications* 29 (2017) 1465-1479
 - **Omar Abu Arqub**, Adaptation of reproducing kernel algorithm for solving fuzzy Fredholm-Volterra integrodifferential equations, *Neural Computing & Applications* 28 (2017) 1591-1610
 - **Omar Abu Arqub**, Shaher Momani, Saleh Al-Mezel, Marwan Kutbi, A novel iterative numerical algorithm for the solutions of systems of fuzzy initial value problems, *Applied Mathematics & Information Sciences* 11 (2017) 1059-1074
 - Marwan Alquran, Kamel Al-Khaled, Mohammed Ali, **Omar Abu Arqub**, Bifurcations of the time-fractional generalized coupled Hirota-Satsuma KdV system, *Waves, Wavelets and Fractals* 3 (2017) 31-39
 - **Omar Abu Arqub**, Mohammed Al-Smadi, Shaher Momani, Tasawar Hayat, Application of reproducing kernel algorithm for solving second-order, two-point fuzzy boundary value problems, *Soft Computing* 21 (2017) 7191-7206
 - **Omar Abu Arqub**, Fitted reproducing kernel Hilbert space method for the solutions of some certain classes of time-fractional partial differential equations subject to initial and Neumann boundary conditions, *Computers & Mathematics with Applications* 73 (2017) 1243-1261
 - **Omar Abu Arqub**, Numerical solutions for the Robin time-fractional partial differential equations of heat and fluid flows based on the reproducing kernel algorithm, *International Journal of Numerical Methods for Heat & Fluid Flow* 28 (2018) 828-856
 - **Omar Abu Arqub**, Computational algorithm for solving singular Fredholm time-fractional partial integrodifferential equations with error estimates, *Journal of Applied Mathematics and Computing* 2018 (2018) 1-17



- **Omar Abu Arqub**, Hasan Rashaideh, The RKHS method for numerical treatment for integrodifferential algebraic systems of temporal two-point BVPs, *Neural Computing & Applications* 30 (2018) 2595-2606
- **Omar Abu Arqub**, Carla Pinto, Rosana Rodríguez López, Vedat Suat Ertürk, Fuzzy calculus theory and its applications, *Complexity* 2018 (2018) 1-2
- **Omar Abu Arqub**, Zaid Odibat, Mohammed Al-Smadi, Numerical solutions of time-fractional partial integrodifferential equations of Robin functions types in Hilbert space with error bounds and error estimates, *Nonlinear Dynamics* 94 (2018) 1819-1834
- **Omar Abu Arqub**, Mohammed Al-Smadi, Atangana–Baleanu fractional approach to the solutions of Bagley–Torvik and Painlevé equations in Hilbert space, *Chaos, Solitons & Fractals* 117 (2018) 161-167
- **Omar Abu Arqub**, Mohammed H. Al-Smadi, Numerical algorithm for solving time-fractional partial integrodifferential equations subject to initial and Dirichlet boundary conditions, *Numerical Methods for Partial Differential Equations* 34 (2018) 1577-1597
- **Omar Abu Arqub**, Solutions of time-fractional Tricomi and Keldysh equations of Dirichlet functions types in Hilbert space, *Numerical Methods for Partial Differential Equations* 34 (2018) 1759-1780
- Shaher Momani, **Omar Abu Arqub**, Banan Maayah, Feras Yousef, Ahmed Alsaedi, A reliable algorithm for solving linear and nonlinear Schrödinger equations, *Applied and Computational Mathematics* 17 (2018) 151-160
- **Omar Abu Arqub**, Numerical solutions of systems of first-order, two-point BVPs based on the reproducing kernel algorithm, *Calcolo - A Quarterly on Numerical Analysis and Theory of Computation* 55 (2018) 1-28
- Zaineh Momani, Mohammad Alshraideh, **Omar Abu Arqub**, Shaher Momani, Mohammad Al-Momani, Modeling and Analyzing Neural Networks Using Reproducing Kernel Hilbert Space Algorithm, *Applied Mathematics & Information Sciences* 12 (2018) 89-99
- **Omar Abu Arqub**, Banan Maayah, Numerical solutions of integrodifferential equations of Fredholm operator type in the sense of the Atangana–Baleanu fractional operator, 2018, *Chaos, Solitons & Fractals* 117 (2018) 117-124
- **Omar Abu Arqub**, Numerical simulation of time-fractional partial differential equations arising in transonic multiphase flows via reproducing kernel method, *International Journal of Numerical Methods for Heat & Fluid Flow* 29 (2019) 1-20
- Mohammed Al-Smadi, **Omar Abu Arqub**, Computational algorithm for solving Fredholm time-fractional partial integrodifferential equations of Dirichlet functions type with error estimates, *Applied Mathematics and Computation* 342 (2019) 280-294
- **Omar Abu Arqub**, Application Numerical algorithm for the solutions of fractional order systems of Dirichlet function types with comparative analysis, *Fundamenta Informaticae* 166 (2019) 111-137
- **Omar Abu Arqub**, Nabil Shawagfeh, Application of reproducing kernel algorithm for solving Dirichlet time-fractional diffusion-Gordon types equations in porous media, *Journal of Porous Media* 22 (2019) 1-24
- **Omar Abu Arqub**, Nabil Shawagfeh, Solving optimal control problems of Fredholm constraint optimality via the reproducing kernel Hilbert space method with error estimates and convergence analysis, *Mathematical Methods in the Applied Sciences* 42 (2019) 1-19
- **Omar Abu Arqub**, Application of residual power series method for the solution of time-fractional Schrödinger equations in one-dimensional space, *Fundamenta Informaticae* 166 (2019) 87–110
- Banan Maayah, Feras Yousef, **Omar Abu Arqub**, Shaher Momani, Ahmed Alsaedi, Computing bifurcations behavior of mixed type singular time-fractional partial integrodifferential equations of Dirichlet functions types in Hilbert space with error analysis, *Filomat* (2019). In Press
- **Omar Abu Arqub**, Mohammed Al-Smadi, Numerical solutions of Riesz fractional diffusion and advection-dispersion equations in porous media using iterative reproducing kernel algorithm, *Journal of Porous Media* (2019). In Press
- **Omar Abu Arqub**, B. Maayah, Modulation of reproducing kernel Hilbert space method for numerical solutions of Riccati and Bernoulli equations in the Atangana-Baleanu fractional sense, *Chaos, Solitons & Fractals* 125 (2019) 163-170.

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- **Omar Abu Arqub**, Shaher Momani, Numerical Solutions of Singular Time-Fractional PDEs. In book: *Handbook of Fractional Calculus with Applications*, Walter De Gruyter GmbH, 2019
- Asad Freihat, Shatha Hasan, Mohammed Al-Smadi, **Omar Abu Arqub**, Shaher Momani, Multistep approach for nonlinear fractional Bloch system using Adomian decomposition techniques. In book: *Advanced Theory and Applications of Fractional Calculus*, Springer,



- 2019
- **Omar Abu Arqub**, Mohammed Al-Smadi, Shaher Momani, Soft numerical algorithm with convergence analysis for time-fractional partial IDEs constrained by Neumann conditions. In book: *Advanced Theory and Applications of Fractional Calculus*, Springer, 2019
- Conferences and Workshops
- 16-18 July 2018 **Omar Abu Arqub**, Approximate solutions of Riesz fractional diffusion equation, The 9th International Conference on Fractional Differentiation and its Application (ICFDA'18), Amman Marriott Hotel, Jordan
- 16-18 July 2018 **Omar Abu Arqub**, Solutions of Volterra singular time-fractional PIDEs, The 9th International Conference on Fractional Differentiation and its Application (ICFDA'18), Amman Marriott Hotel, Jordan
- 15-17 November, 2016 **Omar Abu Arqub**, Analytic-numeric treatment for handling system of second-order, three-point BVPs, the 4th International Conference on Mathematical Sciences (ICMS4), Putrajaya, Malaysia
- 12-15 May, 2015 **Omar Abu Arqub**, Numerical Simulation for Fuzzy Fredholm Integral Equations Using Reproducing Kernel Algorithm, Seventh international conference on information technology (ICC2015), Al-Zaytoonah University of Jordan, Jordan
- 18-21 May, 2015 **Omar Abu Arqub**, An iterative reproducing kernel algorithm for solving systems of fuzzy algebraic equations, The 8th International Conference on Thermal Engineering (ICTEA), Amman, Jordan
- 15-18 January, 2014 **Omar Abu Arqub**, An iterative method for solving boundary value problems of fourth-order and second-order differential equation systems, Joint Mathematics Meetings (JMM2014), Maryland, USA
- 19-21 August, 2014 **Omar Abu Arqub**, A novel iterative reproducing kernel Method for solving first-order, two-point fuzzy periodic boundary value problems, *Advances in Applied Mathematics and Mathematical Physics (ICAAMMP)*, Istanbul, Turkey
- 25-26 April, 2013 **Omar Abu Arqub**, Solution of the Lane-Emden equation by residual power series method, Sixth international conference on information technology (ICC2013), Al-Zaytoonah University of Jordan, Jordan
- 27-28 April, 2011 **Omar Abu Arqub**, A continuous genetic algorithm approach for implicit two-point boundary value problems, Third conference of mathematical science (CMS'2011), Zarqa University, Jordan
- 3-5 June, 2009 **Omar Abu Arqub**, Numerical solution of stiff initial value problems using continuous genetic algorithm, Fourth international conference on information technology (ICIT2009), Al-Zaytoonah University of Jordan, Jordan
- 23-24 July, 2008 **Omar Abu Arqub**, Numerical solution of initial value problems using continuous genetic algorithm, Fourth international workshop on advanced computation for engineering applications (ACEA2008), Al-Balqa Applied University, Jordan
- Honors and Awards
- Assistantship for the PhD degree at the Department of Mathematics, Faculty of Science, the University of Jordan, Jordan, 2003-2008
 - Certificate of recognition as outstanding reviewer by the Journal Neurocomputing (Elsevier, Impact Factor: 3.211), November, 2016
 - Certificate of recognition as outstanding reviewer by the Journal Neurocomputing (Elsevier, Impact Factor: 3.211), October, 2016
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 - Certificate of recognition as outstanding reviewer by the Journal of Applied Mathematics and Computation (Elsevier, Impact Factor: 1.738), December, 2017



- Certificate of recognition as outstanding reviewer by the Journal of Physica A: Statistical Mechanics and its Applications (Elsevier, Impact Factor: 2.132), July, 2018
- Scientific Literature Programing using Mathcad for Scientists and Engineering, 2012
Handbook of Mathematical Laws, 2013
- Computer Skills Mathematics Packages Mathematica
Mathcad
Maple
Matlap
General Computer Skills ICDL
Latex
- Thesis and Project Supervised
- I co-supervised on 9 PhD thesis in mathematics in the University of Jordan, Jordan
 - I co-supervised on one PhD thesis in mathematics in the National University of Malaysia, Malaysia
 - I co-supervised on two Mcs thesis in mathematics in Al al-Bayt University, Jordan
 - I co-supervised on one Mcs thesis in mathematics in Jordan University of Science and Technology, Jordan
 - I co-supervised on two thesis in mathematics in the University of Jordan, Jordan
 - I co-supervised on one thesis in computer sciences in the University of Jordan, Jordan
 - I co-supervised on three Mcs thesis in computer sciences in Al-Balqa Applied University, Jordan
 - I supervised on three BSc graduation project in mathematics in Al-Balqa Applied University, Jordan
- Thesis and Project Examiner Committees
- Member of examiner committee for 5 PhD thesis at the University of Jordan, Jordan
 - Member of examiner committee for 4 Mcs thesis at the University of Jordan, Jordan
 - Member of examiner committee for 4 Mcs thesis at Zarqa university, Jordan
 - Member of examiner committee for 3 Mcs thesis at Al al-Bayt University, Jordan
 - Member of examiner committee for 1 Mcs thesis at Jordan University of Science and Technology, Jordan
 - Member of examiner committee for 2 Mcs thesis at the in Al-Balqa Applied University, Jordan
 - Member of examiner committee for 1 BSc graduation project at Al-Balqa Applied University, Jordan
- Editor-in-Chief I am Editor-in-Chief for the following journal:
- International Journal of Mathematical Research: Pakistan
<http://www.pakinsight.com/?ic=editorial-board&journal=24>
- Editorial Activities I am a member of editorial board on the following journals:
- Big Data and Cloud Innovation: China
<http://ojs.whioce.com/index.php/bdci>
 - UPI Journal of Mathematics and Biostatistics: India
<https://uniquepubinternational.com/upi-journals/upi-journal-of-mathematics-and-biostatistics/editorial-board-upi-journal-of-mathematics-and-biostatistics/>
 - Architecture and Design Review: China
<http://systems.enpress-publisher.com/index.php/ADR/about/editorialTeam>
 - The Open Automation and Control Systems Journal: United Arab Emirates
<https://www.benthamopen.com/TOAUTOCJ/>
 - American Research Journal of Mathematics: USA
<http://www.arjonline.org/mathematics-journals/american-research-journal-of-mathematics>
 - International Journal of Physical Sciences: Nigeria
<http://www.academicjournals.org/journal/IJPS/editors>
 - International Journal of Applied Mathematics and Modeling: Morocco
<http://www.kindipublication.com/Blog+Posts/IJA2M-Editors.html>
 - International Journal of Engineering and Applied Sciences: India
<https://www.ijeas.org/page/editor-board>
 - Journal of Advances in Mathematics: India
<http://cirworld.com/index.php/jam/about/editorialTeam>
 - Journal of Computer Science and Applied Mathematics: Macedonia
<http://www.research-publication.com/index.php/jcsam>
 - International Review of Social Sciences: Pakistan
<http://irss.academyirmbr.com/journalmain.php>

- International Journal of Latest Research in Science and Technology: India
<https://www.mnkjournals.com/ijlrst.htm>
- Journal of Advances in Applied & Computational Mathematics: Pakistan
<http://www.avantipublishers.com/journal-of-advances-in-applied-computational-mathematics/>
- European Journal of Educational Sciences: European Community
<http://www.ejes.eu/>
- International Journal of Computer Systems: India
<http://www.ijcsonline.com/>
- Journal of Progressive Research in Mathematics: India
<http://scitecresearch.com/journals/index.php/jprm>
- Pelagia Research Library: India
<http://pelagiaresearchlibrary.com/>
- International Journal of Engineering Technology and Scientific Innovation: India
<http://ijetsi.org/>
- International Journal of Engineering Research & Science: India
<http://www.ijoer.com/>
- Indian Journal of Applied Research: India
<http://www.worldwidejournals.com/ijar/>
- International Journal of Scientific Research
<http://worldwidejournals.com/ijsr/>
- Paripex - Indian Journal of Research: India
<http://worldwidejournals.com/paripex/>
- Global Journal for Research Analysis
<http://worldwidejournals.com/gra/>
- Journal of Applied Computer Science & Mathematics
<http://jacs.usv.ro/committee/>
- International Journal of Applied Mathematics and Machine Learning
<http://www.scientificadvances.co.in/editorial-board/17>
- International Journal of Arts and Science Research
<http://www.ijasjournal.com/#>
- Global Analysis and Discrete Mathematics: Iran
<http://gadm.du.ac.ir/journal/editorial.board>
- International Journal of Arts and Humanities: India
<http://journal-ijah.org/editorial-committee.php>
- International Journal of Computer Science and Application: USA
<http://www.destechpub.com/product/ijcsa/>
- Asian Journal of Mathematics and Computer Research: India
<http://www.ikpress.org/editorial-board-members/44>
- Open Access Biostatistics & Bioinformatics
<http://crimsonpublishers.com/oabb/editorial-board.php>
- International Journal of Mathematics and Systems Science: China
<http://systems.enpress-publisher.com/index.php/IJMSS/about/editorialTeam>
- Computer Software and Media Applications
<http://systems.enpress-publisher.com/index.php/CSMA/about/editorialTeam>
- International Journal of Mathematical Physics
<http://ojs.whioce.com/index.php/ijmp/about/editorialTeam>
- COJ Technical & Scientific Research
<http://crimsonpublishers.com/cojts/index.php>
- Journal of Applied Mathematics and Statistical Applications
<http://www.alliedacademies.org/journal-applied-mathematics-statistical-applications/editors.php>
- Oriental Journal of Physical Sciences
<http://www.orientjphysicalsciences.org/editorial-board/>
- SCIREA Journal of Physics
<http://www.scirea.org/journal/EditorialBoard?JournalID=14000#5988>
- SCIREA Journal of Mathematics
<https://outlook.office.com/owa/?realm=bau.edu.jo&exsvurl=1&ll-cc=1033&modurl=0&path=/mail/inbox>
- SCIREA Journal of Computer
<http://www.scirea.org/journal/EditorialBoard?JournalID=52000#5988>
- Journal of Computer Science Research
<http://ojs.bilpublishing.com/index.php/jcsr/index>



- Conferences Activities I am a member of program committee on the following conferences:
- 2014 International Conference on Applied Mathematics and Sciences
Abbreviation: AMA-2014
Country: India
 - 2014 International Conference on Dynamical Systems and Differential Equations
Abbreviation: ICDSDE 2014
Country: Turkey
 - 2014 International Conference on Differential Geometry and Applications
Abbreviation: ICDGA 2014
Country: Australia
 - 2015 International Conference on Differential Geometry and Applications
Abbreviation: ICDGA 2015
Country: Brazil
 - 2015 International Conference on Humanities, Social Sciences and Education
Abbreviation: ICHSSE-2015
Country: India
 - 2015 International Conference on Engineering & MIS
Abbreviation: ICEMIS 2015
Country: Turkey
 - 2017 2nd Petra International Conference on Mathematics, Al-Hussein Bin Talal University
Abbreviation: PICM' 17
Country: Jordan
 - 2018 International Conference on the Finite Volume Method: Applications and Numerics
Abbreviation: ICFVM 2018
Country: Lebanon
 - 2018 International Conference on Green Nanotechnology and Computational Fluid Dynamics
Abbreviation: GCFD 2018
Country: United Kingdom
 - 2018 The International Conference on Fractional Differentiation and its Applications
Abbreviation: ICFDA 2018
Country: Jordan
 - 2018 4th International Conference on Artificial Intelligence and Soft Computing
Abbreviation: AIS 2018
Country: Denmark
- Refereeing Activities A member of scientific committee and editorial review board on:
- Information Sciences (Elsevier): USA
 - Computers & Mathematics with Applications (Elsevier): United Kingdom
 - Complexity (Wiley): USA
 - International Journal of Electrical Power & Energy Systems (Elsevier): Netherlands
 - Applied Soft Computing (Elsevier): Netherlands
 - Applied Mathematics and Computation (Elsevier): USA
 - International Journal of Nonlinear Mechanics (Elsevier): USA
 - Signal, Image and Video Processing (Springer): England
 - Mathematical Methods in the Applied Sciences (Wiley): England
 - Journal of Computational physics (Elsevier): Switzerland
 - Computer & Mathematics with Applications (Elsevier): USA
 - International Journal of Control (Taylor & Francis): England
 - Physica A: Statistical Mechanics and its Applications (Elsevier): Netherlands
 - Neurocomputing (Elsevier): Netherlands
 - A Quarterly on Numerical Analysis and Theory of Computation (Springer): Italy
 - Advances in Difference Equations (Springer): Germany
 - Neural Computing and Applications (Springer): Germany
 - International Journal of Nonlinear Sciences and Numerical Simulation (DE GRUYTER): Germany
 - Nonlinear Dynamics (Springer): Netherlands
 - Journal of Applied Mathematics and Computing (Springer): Germany
 - Mathematical Modelling and Analysis (Taylor & Francis): Lithuania
 - International Journal of Computer Mathematics (Taylor & Francis): England
 - Chemical Engineering Communications (Taylor & Francis): USA
 - Cogent Mathematics (Taylor & Francis): Norway
 - Cogent Engineering (Taylor & Francis): Norway
 - Computers in Biology and Medicine (Elsevier): England
 - Journal of Physics A: Mathematical and Theoretical (IOP): England
 - International Journal of Dynamics and Control (Springer): Germany

- Journal of Theoretical and Computational Chemistry (World Scientific): Singapore
- International Journal of Biomathematics (World Scientific): Singapore
- Fundamenta Informaticae (IOS Press): Netherlands
- International Journal of Numerical Methods for Heat and Fluid Flow (Emerald): England
- International Journal of Aerodynamics (Inderscience): England
- Advances in Mechanical Engineering (SAGE): England
- Journal of Porous Media (Begell House): England
- Boundary Value Problems (Springer): Switzerland
- International Journal of Computational Methods (World Scientific): Singapore
- Canadian Journal of Physics (NRC Research Press) : Canada
- Journal of the Brazilian Society of Mechanical Sciences and Engineering (Springer): Germany
- Thermal Science (Institute of Nuclear Sciences Vinca): Serbia
- Jordan Journal of Mathematics & Statistics (Yarmouk University): Jordan
- Journal of King Saud University - Science (Elsevier): Sudia Arabia
- Journal of Ocean Engineering and Science (Elsevier): China
- Alexandria Engineering Journal (Elsevier): Egypt
- Abstract and Applied Analysis (Hindawi): USA
- Journal of Functional Spaces (Hindawi): USA
- Journal of Applied Mathematics (Hindawi): USA
- Journal of Numerical Analysis (Hindawi): USA
- Mathematical Problems in Engineering (Hindawi): USA
- International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (World Scientific): USA
- Iranian Journal of Fuzzy Systems (University of Sistan and Baluchestan): Iran
- Waves, Wavelets and Fractals - Advanced Analysis (DE GRUYTER): Germany
- SpringerPlus (Springer): Switzerland
- An International Journal of Optimization and Control: Theories & Applications: Turkey
- Nonlinear Engineering – Modeling and Application (DE GRUYTER): Germany
- International Journal of Industrial Mathematics (Islamic Azad University): Iran
- Applied and Computational Mathematics (Ministry of Communications and Information Technology): Azerbaijan
- Mathematics (MDPI): Switzerland
- European Journal of Pure and Applied Mathematics (Istanbul Univ Isletme): Turkey
- International Journal of Anatomical Variations (Pulsus): England
- Journal of Environmental Chemistry and Toxicology (Pulsus): England
- Journal of Modern and Applied Physics (Pulsus): England
- Applied Food Science Journal (Pulsus): England
- Journal of Clinical Practice (Pulsus): England
- Journal of Clinical Diagnosis and Treatment (Pulsus): England
- Journal of Pure and Applied Mathematics (Pulsus): England
- Journal of Nanotechnology Letters (Pulsus): England
- Surgery: Case Report (Pulsus): England
- Informatica: An International Journal of Computing and Informatics (INF): Slovenia
- Computers and Electrical Engineering (COMPELECENG): England
- Special Topics & Reviews in Porous Media - An International Journal (Begell House): England
- Mathematical Modelling and Analysis (Vilnius Gediminas Technical University): Lithuania
- Journal of Business Management (IJRDO): India
- Journal of Social Science and Humanities Research (IJRDO): India
- Journal of Applied Science (IJRDO): India
- Journal Of Educational Research (IJRDO): India
- Filomat (University of Nis): Serbia
- Biophysical Reviews and Letters (World Scientific): Singapore
- Computational and Applied Mathematics (Springer): Germany
- Biomedical Sciences (OMICS International): England
- International Journal of Numerical Modelling: Electronic Networks, Devices and Fields (Wiley): United States
- International Journal of Physical Sciences (Academic Journal): Nigeria
- African Journal of Mathematics and Computer Science Research (Academic Journal): Nigeria
- Journal of Advances in Mathematics and Computer Science (SCIENCEDOMAIN international): India
- African Journal of Agricultural Research (Academic Journal): Nigeria



- International Journal of Differential Equations (Hindawi): USA
- Advances in Fuzzy Systems (Hindawi): USA
- Journal of Nonlinear Sciences and Applications (JNSA): Malaysia
- Cogent Business & Management (COGENTBUSINESS): Norway
- Engineering Science and Technology, an International Journal (Elsevier): India
- Journal of Applied and Computational Mechanics (University of Ahvaz): Iran
- Wireless Personal Communications (Springer): USA
- Engineering with Computers (Springer): USA
- Journal of the Korean Society for Industrial and Applied Mathematics (KSIAM): South Korea
- Journal of Applied Computer Science & Mathematics (Stefan cel Mare University of Suceava): Romania
- Vietnam Journal of Mathematics (Springer): Singapore
- Engineering Analysis with Boundary Elements (Elsevier): England
- Mathematical Sciences (Springer): Germany
- Journal of Fractional Calculus and its Applications (Alexandria University): Egypt
- Applied Numerical Mathematics (Elsevier): Netherlands
- IEEE/CAA Journal of Automatica Sinica (IEEE-INST Electrical Electronics Engineers INC): USA
- Journal of Mathematics and Computer Science (The International Scientific Research Publications): Iran
- Numerical Algebra, Control and Optimization (American Institute of Mathematical Sciences): USA
- International Journal of Computing Science and Mathematics (Inderscience): Switzerland
- Engineering Computations (Emerald): England
- Environmental Earth Sciences (Springer): USA
- Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas (Springer): Italy
- Journal of Taibah University for Science (Taylor & Francis): Saudi Arabia
- Future Generation Computer Systems (Elsevier): Netherlands
- International Journal of Machine Learning and Cybernetics (Springer): Germany
- Bulletin of the Iranian Mathematical Society (Springer): Singapore

Academic Activities

A member of the following academic activities:

- Member of the higher education accreditation commission in bachelor of mathematics, Jordan
- Member of mathematics curriculum plan for the master degree in the department of mathematics in Al-Balqa applied university, Jordan
- Member of development and planning committee in the faculty of science at Al-Balqa applied university, Jordan
- Member of curriculum committee in faculty of science at Al-Balqa applied university, Jordan
- Member of college board in faculty of science at Al-Balqa applied university, Jordan
- Member of several internal committees in the faculty and department at Al-Balqa applied university, Jordan
- Member of academic advising for students in the department of mathematics in Al-Balqa applied university, Jordan
- Member of the library and textbooks committee

List of Co-Authors

The following names are co-authors of my researches papers:

- Shaher Momani, The University of Jordan, Jordan
- Mohammed Al-Smadi, Al-Balqa Applied University, Jordan
- Zaid Odibat, Al-Balqa Applied University, Jordan
- Ahmad El-Ajou, Al-Balqa Applied University, Jordan
- Nabil Shawagfeh, The University of Jordan, Jordan
- Zaer Abo-Hammour, The University of Jordan, Jordan
- Zeyad Al-Zhour, University of Dammam, Saudi Arabia
- Asad Freihat, Al-Balqa Applied University, Jordan
- Banan Maayah, The University of Jordan, Jordan
- Ishak Hashim, Universiti Kebangsaan Malaysia, Malaysia
- Othman Alsmadi, The University of Jordan, Jordan
- Hasan Rashaideh, Al-Balqa Applied University, Jordan
- Ahmad Bataineh, Al-Balqa Applied University, Jordan
- Iryna Komashynska, The University of Jordan, Jordan
- Samia Bushnaq, Princess Sumaya University for Technology, Jordan
- Ramzi Al-Badarneh, Hashemite University, Jordan
- Shadi Aljawarneh, Jordan University of Science and Technology, Jordan

- Khaled Moaddy, Shaqra University, Saudi Arabia
- Marwan Alquran, Jordan University of Science and Technology, Jordan
- Kamel Al-Khaled, Jordan University of Science and Technology, Jordan
- Mohammed Ali, Jordan University of Science and Technology, Jordan
- Tasawar Hayat, Quaid-I-Azam University, Pakistan
- Dumitru Baleanu, Cankaya University, Turkey
- Saleh Al-Mezel, King Abdulaziz University, Saudi Arabia
- Marwan Kutbi, King Abdulaziz University, Saudi Arabia
- Hamed Al-Sulami, King Abdulaziz University, Saudi Arabia
- Ahmed Al-Saedi, King Abdulaziz University, Saudi Arabia
- Mamoun Abu Hammad, The University of Jordan, Jordan
- Morad Ahmad, The University of Jordan, Jordan
- Feras Yousef, The University of Jordan, Jordan
- Bewar Ahmad Mahmood, University of Dohuk, Iraq
- Majeed A. Yousif, University of Zakho, Iraq
- Carla Pinto, Polytechnic Institute of Porto, Portugal
- Rosana López, University of Santiago de Compostela, Spain
- Vedat Ertürk, Ondokuz Mayıs University, Turkey

List of Journals [The following are the journals in which I published my researches:](#)

- Applied Mathematics and Computation, Elsevier, USA
- Journal of Computational Physics, Elsevier, Switzerland
- Computers & Mathematics with Applications, Elsevier, USA
- Information Sciences, Elsevier, USA
- Ain Shams Engineering Journal, Elsevier, Egypt
- Journal of King Saud University – Science, Elsevier, Saudi Arabia
- Numerical Methods for Partial Differential Equations, Wiley, USA
- Mathematical Methods in the Applied Sciences, Wiley, England
- Soft Computing, Springer, USA
- Neural Computing and Applications, Springer, Germany
- Mathematical Problems in Engineering, Hindawi, USA
- Advances in Mathematical Physics, Hindawi, USA
- Journal of Applied Mathematics, Hindawi, USA
- Discrete Dynamics in Nature and Society, Hindawi, USA
- Abstract and Applied Analysis, Hindawi, USA
- Entropy, MDPI, Switzerland
- International Journal of Numerical Methods for Heat and Fluid Flow, Emerald, England
- Journal of Porous Media, Begell House, England
- Fundamenta Informaticae, IOS Press, Netherlands
- Applied and Computational Mathematics, National Academy of Sciences, Azerbaijan
- Waves, Wavelets and Fractals - Advanced Analysis, De Gruyter, Germany
- Applied Mathematics & Information Sciences, Natural Sciences Publisher, USA
- Journal of Computational and Theoretical Nanoscience, American Scientific Publishers, USA
- Journal of Computational Analysis and Applications, Eudoxus Press, USA
- Current Science, Indian Academy of Sciences, India
- Nonlinear Dynamics, Springer, Netherlands
- Calcolo - A Quarterly on Numerical Analysis and Theory of Computation, Springer, Italy
- Complexity, Hindawi, USA
- Chaos, Solitons & Fractals, Elsevier, USA

Develop of New Course I constructed and developed the contents and teaching methods of the course Fuzzy Calculus and its Applications in the BSc plan of mathematics in Al Balqa applied university, Jordan

Languages	Arabic: Understanding, Speaking, Writing	Mother Tongue
	English: Understanding, Speaking, Writing	Excellent
	Italian: Understanding, Writing	Very Good

Undergraduate Courses (BSc Level) I taught the following undergraduate courses:

Calculus	Mathematics for Business Administration
	Mathematics for Medical Sciences
	Pre-Calculus
	Calculus I
	Calculus II
	Advanced Calculus
	Fuzzy Calculus and its Applications

Algebra and Geometry	Abstract Algebra 1 Linear Algebra I Linear Algebra and Numerical Analysis Number Theory Modern Euclidean Geometry
Differential Equations	Ordinary Differential Equations I Partial Differential Equations I Partial Differential Equations II
Engineering Mathematics	Engineering Mathematics I Engineering Mathematics 2
Analysis	Numerical Analysis I Numerical Solutions of Differential Equations Intermediate Analysis Complex Analysis Foundations of Mathematics
Mathematical Programming Packages	Mathematica Mathcad Maple
Special Topics in Mathematics	Matrix Analysis and Theory of Inequalities Fractional Calculus Theory and its Applications Difference Equations and their Applications Optimal Control Problems
Statistics Applied Mathematics	Probability and Statistics Integral Transforms and Integral Equations Methods of Applied Mathematics Computations in Applied Mathematics Mathematical Modeling Special Functions and Fourier Analysis Mathematical Physics I Operation Research
Discrete Mathematics	

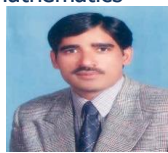
Graduate Courses I taught the following graduate courses:

Msc Level Applied Mathematics 1
Numerical Analysis

PhD Level Method of Applied Mathematics
Special Topics

- Interest and Hobbies
- Teamwork, enterprises, leadership, and organization
 - Internet surfing and reading
 - Writing and authoring

Contacts and References Professor of Applied Mathematics



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Professor of Optimization



Ali Yildiz
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Professor of Mathematical Physics



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Professor of Applied Mathematics



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Professor of Mathematical Modelling



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Last Updated on Tuesday, June 28, 2019
Prof. Omar Abu Arqub

