

## DR. MOHAMMAD W. N. ALOMARI

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CONTACT INFORMATION	Department of Mathematics Faculty of Science and Information Technology, Irbid National University, P.O. Box 2600, P.C. 21110 Irbid, Jordan. Mobile: 00962-796649236 E-mail: mwomath@gmail.com URL: <a href="http://www.researchgate.net/profile/Mohammad_Alomari">http://www.researchgate.net/profile/Mohammad_Alomari</a>
FAMILY INFORMATION	Date of Birth: Feb. 23, 1983. Marital status: Married. Total Family: 5 (with me).
ACADEMIC DEGREE	Assistant Professor in Mathematics.
MAJOR	Mathematical Analysis – Inequalities and Approximations.
RESEARCH INTERESTS	Mathematical inequalities, Approximations theory, Sobolev space, Hilbert space.
OTHER INTERESTS	Theory of functions of real and complex variables, Special functions, Ordinary differential equations, Mathematical means, Solving mathematical problems.
LANGUAGE(S)	Arabic (Mother Tongue), English: reading, writing, command (Very Good).
COMPUTER SKILLS	Microsoft Windows, Microsoft office, LaTeX, Maple, Mathematica.
EDUCATION	<b>Universiti Kebangsaan Malaysia</b> , Bangi, Selangor, Malaysia (I) PhD in Mathematics, 2011. <ul style="list-style-type: none"><li>• Dissertation Title: “Several inequalities of Hermite–Hadamard, Ostrowski and Simpson type for <math>s</math>-convex, quasi-convex and <math>r</math>-convex mappings with some applications.”</li><li>• Advisor: Professor Maslina Darus.</li></ul> (II) M.Sc., Mathematics, 2007. <b>Yarmouk University</b> , Irbid, Jordan B.A., Mathematics, 2006.
AWARDS AND FUNDS	Full financial PhD research support, Universiti Kebangsaan Malaysia, Faculty of Science and Technology, grant No.: UKM–GUP–TMK–07–02–107, 2-years, Jan, 2008– Dec, 2009.
ACADEMIC EXPERIENCE	Irbid National University, Jordan. Assistant Professor September, 2014 – Present. Jadara University, Jordan. Assistant Professor October, 2013 – September, 2014. Jerash University, Jordan. Assistant Professor February, 2011 – September, 2013. Universiti Kebangsaan Malaysia, Graduate Student July, 2006 - January 2011 Includes current Ph.D research, Ph.D and Masters level coursework and research/consulting projects.

**TAUGHT COURSES****Undergraduate level course (B.Sc.)**

- Calculus (I, II, III, IV).
- Linear Algebra (I & II).
- Set Theory.
- Mathematical Methods.
- Special Functions.
- Ordinary Differential Equations (I & II).
- Partial Differential Equations (I & II).
- Vector Analysis.
- Complex Analysis (I & II).
- Real Analysis (I & II).
- Numerical Analysis (I & II).

**Graduate level course (M.Sc.)**

- Complex Analysis.
- Special Topics.

**AUTHORED BOOKS**

A Journey To Modern Inequalities, Lambert Academic Publishing (LAP), Germany, (To be published) 2017.

**MONOGRAPHS**

Numerous approximations of Riemann-Stieltjes double integrals, unpublished monograph 150 pages, 2016. Available at <https://arxiv.org/abs/1609.05038>

**SUPERVISION**

A co-advisor for a Ph.D student *Ahmet Ocak Akdemir*, Atatürk University, Turkey (Prof. M. Emin Özdemir his principal supervisor), 2011.

**EDITORIAL BOARDS****Member of editorial board including the following journals:**

- Journal of Applied Sciences (JAS).
- Trends in Applied Sciences Research (TASR).
- Asian Journal of Mathematics & Statistics (AJMS).
- Asian Journal of Applied Sciences (AJAS).
- Konuralp Journal of Mathematics (KJM).
- International Journal of Research and Discovery (IJRD).

**Referee of several international mathematical journals including:**

- Journal of Inequalities & Applications (JIA).
- Applied Mathematics Letters (AML).
- Applied Mathematics and Computation (AMC).
- Journal of Computational and Applied Mathematics (CAM).
- Computers and Mathematics with Applications (CAMWA).
- Mathematical and Computer Modelling (MCM).
- Journal of Mathematical Analysis and Applications (JMAA).
- Journal of Fractional Calculus and Applications (JFCA).
- Advances in Operator Theory (AOT).
- Miskolc Mathematical Notes (MMN).

**Reviewer of** Mathematical Reviews since 2011. (Reviewer Number: 077020)

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MathSciNet: 859140.

#### PUBLICATIONS

1. **M.W. Alomari**, A sharp companion of Ostrowski's inequality for the Riemann–Stieltjes integral and applications, *Ann. Univ. Paedagog. Crac. Stud. Math.*, 15 (2016), 69–78.
2. **M.W. Alomari**, A generalization of Hermite–Hadamard's inequality, *Kragujevac J. Math.*, in print.
3. **M.W. Alomari**, Bounds for the weighted Dragomir–Fedotov functional, *Moroccan J. Pure and Appl. Anal. (MJPA)*, 2 (2) (2016), 65–78.
4. **M.W. Alomari**, New inequalities of Grüss–Lupaş type and applications to selfadjoint operators, *Armen. J. Math.*, 8 (1) (2016), pp. 25–37.
5. **M.W. Alomari**, Two-dimensional Pompeiu's mean value theorems and related results, *J. Nonlinear Funct. Anal.*, 2016 (2016), Article ID 8.
6. **M.W. Alomari** and S.S. Dragomir, A three–point quadrature rule for the Riemann–Stieltjes integral, *Southeast Asian Bulletin Journal of Mathematics*, 40 (2016), 1–14.
7. **M.W. Alomari**, Approximating the Riemann–Stieltjes integral by a three–point quadrature rule and applications, *Konuralp J. Math.*, 2 (2) (2014), 22–34.
8. **M.W. Alomari**, New Čebyšev type inequalities and applications for functions of selfadjoint operators on complex Hilbert spaces, *Chinese J. Math.*, Volume 2014, Article ID 363050, 10 pages.
9. **M.W. Alomari**, Difference between two Stieltjes integral means, *Kragujevac J. Math.*, 38(1) (2014), 35–49.
10. **M.W. Alomari** and S.S. Dragomir, Various error estimations for several Newton–Cotes quadrature formulae in terms of at most first derivative and applications in numerical integration, *Jordan J. Math. & Stat.*, 7(2) 2014, 89–108.
11. **M.W. Alomari**, A companion of Grüss type inequality for Riemann–Stieltjes integral and applications, *Matematički Vesnik*, 66 (2) (2014), 202–212.
12. **M.W. Alomari**, New Grüss type inequalities for double integrals, *Appl. Math. Comp.*, 228 (2014) 102–107.
13. **M.W. Alomari** and S.S. Dragomir, New Grüss type inequalities for Riemann–Stieltjes integral with monotonic integrators and applications, *Ann. Funct. Anal.*, 5 (2014), no. 1, 77–93.
14. **M.W. Alomari** and S.S. Dragomir, Some Grüss type inequalities for the Riemann–Stieltjes integral with Lipschitzian integrators, *Konuralp J. Math.*, 2 (1) 2014, 36–44.
15. **M.W. Alomari**, New inequalities of Steffensen's type for  $s$ -convex functions, *Afrika Matematika*, (2013), doi: 10.1007/s13370-013-0175-1.
16. **M.W. Alomari**, A companion of the generalized trapezoid inequality and applications, *Journal of Math. Appl.*, 36 (2013), 5–15.

17. **M.W. Alomari**, A sharp bound for the Čebyšev functional of convex or concave functions, *Chinese J. Math.*, Volume 2013, Article ID 295146, 3 pages.  
<http://dx.doi.org/10.1155/2013/295146>.
18. **M.W. Alomari** and S.S. Dragomir, Mercer-Trapezoid rule for Riemann–Stieltjes integral with applications, *Journal of Advances in Mathematics*, 2 (2) (2013), 67–85.
19. **M.W. Alomari**, S.S. Dragomir and U.S. Kirmaci, Generalizations of the Hermite–Hadamard type inequalities for functions whose derivatives are  $s$ -convex, *Acta et Commentationes Universitatis Tartuensis de Mathematica*, 17 (2) (2013), 157–169.
20. **M.W. Alomari**, A companion of Ostrowski’s inequality for the Riemann–Stieltjes integral  $\int_a^b f(t)du(t)$ , where  $f$  is of bounded variation and  $u$  is of  $r$ - $H$ -Hölder type and applications, *Appl. Math. Comput.*, 219 (2013), 4792–4799.
21. **M.W. Alomari**, New sharp inequalities of Ostrowski and generalized trapezoid type for the Riemann–Stieltjes integrals and applications, *Ukrainian Mathematical Journal*, 65 (7) 2013, 895–916.
22. S. Hussain and **M.W. Alomari**, Weighted Ostrowski and Čebyšev type inequalities and applications, *Konuralp J. Math.*, 1 (2) (2013), 1–16.
23. **M.W. Alomari** and Z. Liu, New error estimations for the Milne’s quadrature formula in terms of at most first derivatives, *Konuralp J. Math.*, 1 (1) 2013, 17–23.
24. **M.W. Alomari** and S. Hussain, An inequality of Ostrowski’s type for preinvex functions with applications, *Tamsui Oxford J. Math. Sci.*, 29 (1) (2013), 29–37.
25. **M.W. Alomari**, A generalization of companion inequality of Ostrowski’s type for mappings whose first derivatives are bounded and applications and in numerical integration, *Trans. J. Math. Mech.*, 4(2) (2012), 103–109.
26. **M.W. Alomari**, Bounds for the Riemann–Stieltjes integral via  $s$ -convex integrand or integrator, *Acta et Commentationes Universitatis Tartuensis de Mathematica*, 16 (2) (2012), 1–9.
27. **M.W. Alomari**, M.E. Özdemir and H. Kavurmaci, On companion of Ostrowski inequality for mappings whose first derivatives absolute value are convex with applications, *Miskolc Mathematical Notes*, 13 (2) (2012), 233–248.
28. M.A. Latif, **M.W. Alomari**, and S. Hussain, On Ostrowski-type inequalities for functions whose derivatives are  $m$ -convex and  $(\alpha, m)$ -convex functions with applications, *Tamkang J. Math.*, 43 (4) (2012), 521–532.
29. **M.W. Alomari**, On approximation of the Riemann–Stieltjes integral and applications, *Publications de l’Institut Mathématique*, 92 (106) (2012), 145–156.
30. **M.W. Alomari**, A companion of Dragomir’s generalization of Ostrowski’s inequality and applications in numerical integration, *Ukrainian Mathematical Journal*, 64 (4) 2012, 491–510.
31. **M.W. Alomari**, A companion of Ostrowski’s inequality for mappings whose first derivatives are bounded and applications in numerical integration, *Kragujevac Journal of Mathematics*, 36 (2012), 77–82.
32. **M.W. Alomari**, Some Grüss type inequalities for Riemann–Stieltjes integral and applications, *Acta Mathematica Universitatis Comenianae*, 81 (2) (2012), 211–220.
33. **M.W. Alomari**, A companion of Ostrowski’s inequality with applications, *Trans. J. Math. Mech.*, (TJMM), 3 (2011), 9–14.

34. **M. Alomari**, M. Darus and U.S. Kirmaci, Some inequalities of Hermite-Hadamard type for  $s$ -convex functions, *Acta Mathematica Scientia*, 2011, 31 B(4) : 1643–1652.
35. S. Hussain, M.A. Latif and **M. Alomari**, Generalized double integral Ostrowski type inequality on time scale, *Appl. Math. Lett.*, 24 (8) (2011), 1461–1467.
36. **M. Alomari** and S. Hussain, Two inequalities of Simpson type for quasi-convex functions and applications, *Appl. Math. E-Notes*, 11 (2011) 110–117.
37. M.E. Özdemir, E. Set and **M. Alomari**, Integral inequalities via several kind of convexity, *Creative Mathematics and Informatics*, 20 (2011), 62–73.
38. **M. Alomari** and M. Darus, On some inequalities of Simpson-type via quasi-convex functions and applications, *Trans. J. Math. Mech.*, (TJMM), 2 (2010), 15–24.
39. **M. Alomari**, M. Darus and S.S. Dragomir, New inequalities of Hermite-Hadamard type for functions whose second derivatives absolute values are quasi-convex, *Tamkang J. Math.*, 41 (2010), 353–359.
40. **M. Alomari**, M. Darus, S.S. Dragomir and P. Cerone, Ostrowski type inequalities for functions whose derivatives are  $s$ -convex in the second sense, *Appl. Math. Lett.*, 23 (2010), 1071–1076.
41. **M. Alomari**, M. Darus, S.S. Dragomir and U. Kirmaci, On fractional differentiable  $s$ -convex functions, *Jordan J. Math and Stat.*, (JJMS), 3 (1) (2010), 33–42.
42. **M. Alomari**, M. Darus and U. Kirmaci, Refinements of Hadamard-type inequalities for quasi-convex functions with applications to trapezoidal formula and to special means, *Comp. Math. Appl.*, 59 (2010), 225–232.
43. **M. Alomari** and M. Darus, Féjer inequality for double integrals, *Facta Universitatis: Ser. Math. Inform.*, 24 (2009), 15–28.
44. **M. Alomari** and M. Darus, On the Hadamard's inequality for log-convex functions on the coordinates, *J. Ineq. Appl.*, 2009, Article ID 283147, 13 pages, doi:10.1155/2009/283147.
45. M. A. Latif and **M. Alomari**, On Hadamard-type inequalities for  $h$ -convex functions on the co-ordinates, *Int. J. Math. Anal.*, 3 (33) (2009), 1645–1656.
46. M. A. Latif and **M. Alomari**, Hadamard-type inequalities for product two convex functions on the co-ordinates, *Inter. Math. Forum*, 3 (47) (2009), 2327–2338.
47. **M. Alomari** and M. Darus, Some Ostrowski type inequalities for convex differentiable mappings, Lecture series on geometric function theory, series II, Edited by M. Darus, K. Al-Shaqsi and S. Sivasubramanian, (2009) 55–67.
48. **M. Alomari** and M. Darus, Grüss type inequalities for Lipschitzian convex mappings on the coordinates, Lecture series on geometric function theory, series I, Edited by M. Darus and K. Al-Shaqsi, (2009) 59–66.
49. **M. Alomari** and M. Darus, On means of complex numbers, Proceedings International Symposium on New Development of Geometric Function Theory and its Applications (GFTA), Universiti Kebangsaan Malaysia (2008).
50. **M. Alomari** and M. Darus, A mapping connected with Hadamard-type inequalities in 4-variables, *Int. Journal of Math. Anal.*, 2 (13) (2008), 601–628.
51. **M. Alomari** and M. Darus, The Hadamard's inequality for  $s$ -convex function of 2-variables on the co-ordinates, *Int. Journal of Math. Anal.*, 2 (13) (2008), 629–638.
52. **M. Alomari** and M. Darus, The Hadamard's inequality for  $s$ -convex function, *Int. Journal of Math. Anal.*, 2 (13) (2008), 639–646.

53. **M. Alomari** and M. Darus, Co-ordinated  $s$ -convex function in the first sense with some Hadamard-type inequalities, *Int. J. Contemp. Math. Sci.*, 3 (32) (2008), 1557–1567.
54. **M. Alomari** and M. Darus, Refinements of  $s$ -Orlicz convex functions in normed linear spaces, *Int. J. Contemp. Math. Sci.*, 3 (32) (2008), 1569–1594.
55. **M. Alomari** and M. Darus, Hadamard-type inequalities for  $s$ -convex functions, *Inter. Math. Forum*, 3 (40) (2008), 1965–1975.
56. **M. Alomari** and M. Darus, On co-ordinated  $s$ -convex functions, *Inter. Math. Forum*, 3 (40) (2008), 1977–1989.

MANUSCRIPTS AND  
PREPRINTS

1. On Alzer's inequality, (preprint) 2016.
2.  $L_p$ -bounds for the Čebyšev functional, (preprint) 2016.
3. A multidimensional version of Beesack–Darst–Pollard inequality for Riemann–Stieltjes integral, (manuscript) 2016.
4. Sharp Wirtinger's type inequalities for double integrals with Applications, (preprint) 2016.
5. On Beesack–Wirtinger inequality, (preprint) 2016.
6. Mean value theorems of Pompeiu–Flett's type, (manuscript) 2016.
7. The Hermite–Hadamard inequality on hypercuboid, (preprint) 2016.
8. A perturbed Milne's quadrature rule for  $n$ -times differentiable functions, (manuscript) 2016.
9. On comparing two integral means, (preprint) 2016.
10. A companion of Ostrowski's inequality for the Riemann–Stieltjes integral with Lipschitz continuous integrators with Applications, (preprint) 2016.
11. An improvement inequality of Simpson's type for quasi-convex mappings with applications, (preprint) 2016.
12. Error estimations of general corrected five-point quadrature rules of Newton–Cotes type, (manuscript) 2015.
13. A multidimensional Rolle's mean-value theorem, (manuscript) 2014.
14. Some Steffensen's type inequalities, (manuscript) (with S. Hussain & Z. Liu) 2012.

CONFERENCES AND  
SEMINARS

1. Seminar on Ostrowski type inequalities with applications, at Universiti Kebangsaan Malaysia, May, 2010.
2. Workshop: Symposium on Geometric Function Theory and its Applications, at Universiti Kebangsaan Malaysia during, October, 7-8, 2009.
3. Workshop: Symposium on Geometric Function Theory and its Applications, at Universiti Kebangsaan Malaysia during, August, 2008.
4. Presenter in the International Symposium on Geometric Function Theory and its Applications (GFTA 2008), at Universiti Kebangsaan Malaysia, Nov., 10-13, 2008.

REFERENCES

- Professor Sever S. Dragomir, Mathematics, School of Engineering & Science, Victoria University, P.O. Box 14428, Melbourne City, MC 8001, Australia. E-mail: sever.dragomir@vu.edu.au
- Professor Allal Guessab, Department of Applied Mathematics, University of Pau, 64000 Pau, France E-mail address: allal.guessab@univ-pau.fr
- Professor Sabir Hussain, Department of Mathematics, University of Engineering and Technology, Lahore, Pakistan. Email: sabirhus@gmail.com