

PROF. DR. MOHAMMAD W. ALOMARI

CONTACT INFORMATION

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<https://scholar.google.com.my/citations?user=CYyG0qEAAAAJ&hl=en>
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A BRIEF INTRODUCTORY

Prof. Dr. Alomari is a Full Professor of Mathematics (Mathematical Analysis) at Irbid National University-Jordan. He was awarded his Ph.D. from the National University of Malaysia in 2011. His main research area includes; Mathematical inequalities, Approximation theory, Hilbert space, and classical theory of real and complex functions. Since 2008, Prof. Dr. Alomari published more than 90 articles in his area of research and he had done two book drafts both of them within his main research interests in Mathematical Inequalities. Prof. Dr. Alomari has other research interests such as the theory of complex variables and ordinary differential equations, where he had finished many drafts in these two areas.

ACADEMIC DEGREE

Ph.D in Mathematics.

ACADEMIC RANK

Full Professor of Mathematics.

MAJOR

Mathematical Analysis.

RESEARCH INTERESTS

Mathematical inequalities, Approximations and Expansions, Hilbert space.

OTHER INTERESTS

Umbral Calculus, Complex Analysis, Special functions, Ordinary differential equations, Mathematical means, Solving mathematical problems.

AUTHOR IDS

Web of Science: E-8770-2010 — **Scopus:** 24467708100 — **ORCID:** 0000-0002-6696-9119

AUTHOR *h*-INDEX The largest number h such that h publications have at least h citations
Web of Science: **11** — Scopus: **11** — Google Scholar: **25** — Researchgate (RG): **24**.

i10-INDEX Google Scholar: The number of publications with at least 10 citations is **39**.

SUM OF TIMES CITED Web of Science: **482** — Scopus: **533** — Google Scholar: **2411** — Researchgate (RG): **2468**.

NUMBER OF PUBLICATIONS Web of Science: **96** — Scopus: **43** — Google Scholar: **119** — Researchgate (RG): **177**.

ACADEMIC EXPERIENCE

Outstanding Full Professor, Irbid National University, Jordan.	Feb. 2022 – Present.
Associate Professor, Irbid National University, Jordan.	Jan. 2018 – Feb. 2022.
Assistant Professor, Irbid National University, Jordan.	Sep. 2014 – Dec. 2017.
Assistant Professor, Jadara University, Jordan.	Oct. 2013 – Sep. 2014.
Assistant Professor, Jerash University, Jordan.	Oct. 2011 – Sep. 2013.
Lecturer, Jerash University, Jordan.	Feb. 2011 – Sep. 2011.
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.)** I Taught most of undergraduate courses many times as a Principal Instructor, including:

- Calculus (I, II, III, IV).
- Logic and Set Theory (Principal Instructor).
- Mathematical Methods.
- Special Functions.
- Numerical Analysis.
- Topology.
- Linear Algebra (Principal Instructor and Coordinator).
- Ordinary Differential Equations.
- Partial Differential Equations.
- Complex Analysis (Principal Instructor and Coordinator).
- Real Analysis (Principal Instructor and Coordinator).

Graduate level course (M.Sc.) I Taught four graduate level courses, including:

- Measure Theory and Integration (Principal Instructor).
 - Advanced Complex Analysis (Principal Instructor).
 - Ordinary Differential Equations.
 - Advanced Numerical Analysis.
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EDUCATION

Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia.

- (1) PhD in Mathematics, 2011.
 - Dissertation Title: “Several inequalities of Hermite–Hadamard, Ostrowski and Simpson type for s -convex, quasi-convex and r -convex mappings with some applications.”
 - Dissertation Topic: “Inequalities and Approximations”.
 - Advisor: Professor Maslina Darus.
- (2) M.Sc., Mathematics, 2007.
 - Dissertation Title: “New method to evaluate certain classes of infinite series and infinite products with analytic functions.”
 - Dissertation Topic: “Analytic functions of complex variables”
 - Advisor: Professor Maslina Darus.

Yarmouk University, Irbid, Jordan.

- (3) B.Sc., Mathematics, 2006.
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MEMBERSHIP
& REVIEWER

A member of the American Mathematical Society (AMS), 2019–present. www.ams.org

A member of the European Mathematical Society (EMS), 2018–present. <https://euromathsoc.org>

A member of the Foundation of Computational Mathematics (FoCM), 2022. <http://focm-society.org/index.php>

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

Reviewer of Zentralblatt MATH Reviews since 2016, (Reviewer Number: 16125).

LANGUAGE(S)

Arabic, English.

COMPUTER
SKILLS

Microsoft Windows, Microsoft office, LaTeX, Maple, E-learning (Microsoft 365, Moodle).

AWARDS
AND FUNDS

- Outstanding Researcher Award, Irbid National University, Jordan, 2021.
 - Listed on No. 6 in the list of “*The most influential Mathematical researchers in Jordan*”. The general rank up to all subjects is 63 including Health, Medical, Engineering, Physical and Social Sciences, University of Jordan, March, 2019.
 - Full financial PhD research support and fund, Universiti Kebangsaan Malaysia, Faculty of Science and Technology, grant No.: UKM–GUP–TMK–07–02–107, 2-years, Jan., 2008–Dec., 2009.
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ADMINISTRATIVE
AFFAIRS

- Board Member Committee of Faculty of Science and Information Technology, Irbid National University.
 - Member of Scientific Journals Accreditation Committee, Deanship of Scientific Research, Irbid National University.
 - Member of Scientific Research Committee, Deanship of Scientific Research, Irbid National University.
 - Member of Scientific Research Committee, Department of Mathematics, Irbid National University.
 - Member of Course Equivalency Committee, Department of Mathematics, Irbid National University.
 - Member of The Study Plan Preparation Committee, Department of Mathematics, Irbid National University.
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EDITORIAL
BOARDS

Member of editorial board including the following journals:

- International Journal of Emerging Multidisciplinary-Mathematics (Editor-In-Chief).
 - Mathematical Problems in Engineering-Hindawi (MPE).
 - Journal of Mathematics-Hindawi (JM).
 - Advances in Mathematical Physics-Hindawi (AMP).
 - Journal of Mathematics and Statistics Research (JMSR).
 - Cogent Mathematics & Statistics (Cogent MS).
 - Turkish Journal of Science (TJS).
 - Eastern Anatolian Journal of Science.
 - Turkish Journal of Inequalities (TJI).
 - Journal of Advances in Mathematics (JAM).
 - Konuralp Journal of Mathematics (KJM).
-

Referee of several international mathematical journals -but not limited to- including:

- Journal of Inequalities & Applications (JIA).
- Linear & Multilinear Algebra (LMA).
- Journal of Mathematical Inequalities (JIM).
- Mathematics-MDPI
- International Journal of Mathematical Education in Science and Technology
- Kragujevac Journal of Mathematics (KJM).
- Journal of Mathematical Analysis and Applications (JMAA).
- Applied Mathematics and Computation (AMC).
- Journal of Computational and Applied Mathematics (CAM).

- Advances in Operator Theory (AOT).
 - Journal of Mathematical Sciences (JMS).
 - International Journal of Analysis (IJA).
 - AIMS Mathematics.
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BOOKS PROJECT

- A Journey To Modern Inequalities, (To be published).

Book page: <https://www.researchgate.net/project/A-Journey-to-Modern-Inequalities>

- The Two Inequalities of Chebyshev, A Survey of Old and New Results, (In preparation).
 - Fundamental Mathematical Inequalities, (In preparation).
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SUPERVISIONS

1. A co-advisor for a Ph.D student *Ahmet Ocak Akdemir*, Atatürk University, Turkey (Prof. M. Emin Özdemir his principal supervisor), 2012.
 2. Advisor for a M.Sc. Student *Hassan Albrakat*, Irbid National University, Jordan, 2019.
 3. Advisor for a M.Sc. Student *Thabet Taher Ali*, Irbid National University, Jordan, 2020.
 4. Advisor for a M.Sc. Student *Amen F. Qassem*, Irbid National University, Jordan, 2020.
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SCIENTIFIC
COMMITTEE
MEMBER

A Member of Discussion Committee of Master Dissertations:

1. Numerical quadrature rules using Hermite interpolation polynomials, Irbid National University, Jordan, 2020. (Chair).
 2. Expansion of real functions in Bivariate kind of Bernoulli and Euler polynomials and applications to quadrature rules, Irbid National University, Jordan, 2020. (Chair)
 3. Tests of convergence of double sequence and series of real numbers and functions, Irbid National University, Jordan, 2019. (Chair)
 4. Numerical radius inequalities, Irbid National University, Jordan, 2020. (Internal Examiner).
 5. p -Groups and Sylow Theorems, Irbid National University, Jordan, 2019. (Internal Examiner).
 6. Maximum Principles of Differential Equations for Parabolic Operators, Irbid National University, Jordan, 2019. (Internal Examiner).
 7. Functions of Matrices, Irbid National University, Jordan, 2019. (Internal Examiner).
 8. Residual power series method for solving initial value problems, Irbid National University, Jordan, 2019. (Internal Examiner).
 9. Monotone matrix functions, Irbid National University, Jordan, 2019. (Internal Examiner).
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REFERENCES

- Prof. Dr. Sever S. Dragomir (Full Professor & Chair in Mathematical Inequalities), Head of Department of Mathematics, School of Engineering & Science, Victoria University, P.O. Box 14428, Melbourne City, MC 8001, Australia.
E-mail: sever.dragomir@vu.edu.au
 - Prof. Dr. Gradimir V. Milovanović (Full Professor in Approximation Theory), Mathematical Institute, Serbian Academy of Sciences and Arts, Kneza Mihaila 36, 11000 Beograd, Serbia.
Email: gvm@mi.sanu.ac.rs
 - Prof. Dr. Fuad Kittaneh (Full Professor in Operator Theory), Department of Mathematics, University of Jordan, Amman, Jordan.
Email: fkitt@ju.edu.jo
 - Prof. Dr. Allal Guessab (Full Professor in Approximation Theory), Department of Applied Mathematics, University of Pau, 64000 Pau, France.
E-mail address: allal.guessab@univ-pau.fr
 - Prof. Dr. Ana Maria Acu (Full Professor in Approximation Theory), Lucian Blaga University of Sibiu, Department of Mathematics and Informatics, Str. Dr. I. Ratiu, No.5-7, RO-550012 Sibiu, Romania.
Email: acuana77@yahoo.com
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PUBLICATIONS

2022

1. **M.W. Alomari**, Christophe Chesneau and Victor Leiva, Grüss type inequalities for vector-valued functions, *Mathematics* (MDPI), accepted
2. **M.W. Alomari** and Christophe Chesneau, On h -superquadratic functions, *Afrika Matematika*, In press.
3. **M.W. Alomari**, On Cauchy–Schwarz type inequalities and applications to numerical radius inequalities, *Ricerche di Matematica*, (2022), <https://doi.org/10.1007/s11587-022-00689-2>
4. **M.W. Alomari** and M.K. Bakula, An application of Hayashi’s Inequality for Differentiable functions, *Mathematics* (MDPI), (2022); 10(6):907. <https://doi.org/10.3390/math10060907>
5. **M.W. Alomari**, Improvements of some numerical radius inequalities, *Azerbaijan Journal of Mathematics*, **12** (1), (2022), 124–137.
6. **M.W. Alomari**, An inequality of Simpson’s type Via Quasi-Convex Mappings with Applications, *Innovative Journal of Mathematics* **1** (1) (2022), 45–51.
7. **M.W. Alomari**, Inequalities for Riemann-Stieltjes integral, *International Journal of Emerging Multidisciplinaries: Mathematics*, **1** (1) (2022), 12–16.

2021

8. **M.W. Alomari**, Numerical radius inequalities for Hilbert space operators, *Complex Analysis and Operator Theory*, **15** (4), (2021) Article 111.
 9. **M.W. Alomari**, Popoviciu's type inequalities for h -MN-convex functions, *e-Journal of Analysis and Applied Mathematics*, accepted.
 10. **M.W. Alomari**, S. Sahoo and M. Bakherad, Further numerical radius inequalities, *Journal of Mathematical Inequalities*, in press.
 11. F. Chien, M. Bakherad and **M.W. Alomari**, Refined Berezin number inequalities via superquadratic and convex functions, *Filomat*, in press.
 12. **M.W. Alomari**, Some numerical radius inequalities for the Čebyšev functional and non-commutative Hilbert space operators, *Khayyam J. Math.*, **7** (1) (2021), 96–108.
 13. M.T. Garayev and **M.W. Alomari**, Inequalities for the Berezin number of operators and related questions, *Complex Analysis and Operator Theory*, **15**, Article No. 30, (2021).
 14. **M.W. Alomari**, Refinements of some numerical radius inequalities for Hilbert space operators, *Linear and Multilinear Algebra*, **69** (7) (2021), 1208–1223.
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2020

15. **M.W. Alomari**, A generalization of weighted companion of Ostrowski integral inequality for mappings of bounded variation, *International Journal of Nonlinear Sciences and Numerical Simulation*, **21** (7-8) (2020), 667–673.
 16. **M.W. Alomari**, On the generalized mixed Schwarz inequality, *Proceedings of the Institute of Mathematics and Mechanics*, National Academy of Sciences of Azerbaijan, **46** (1) (2020), 3–15.
 17. **M.W. Alomari**, Sharp Wirtinger's type inequalities for double integrals with applications, *Novi Sad J. Math.*, **50** (1) (2020), 1–16.
 18. **M.W. Alomari**, Two-point Ostrowski and Ostrowski–Grüss type inequalities with applications, *The Journal of Analysis*, **28** (3) (2020), 623–661.
 19. **M.W. Alomari**, Bounds for the difference between two Čebyšev functionals, *Afrika Matematika*, **31**(3-4) (2020), 539–556.
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2019

20. **M.W. Alomari**, Some properties of h -MN-convexity and Jensen's type inequalities, *Journal of Interdisciplinary Mathematics*, **22** (8) (2019), 1349–1395.
 21. **M.W. Alomari**, A weighted companion of Ostrowski–Midpoint inequality for mappings of bounded variation, *Konuralp J. Math.*, **7** (2) (2019) 337–343.
 22. **M.W. Alomari**, New upper and lower bounds for the trapezoid inequality of absolutely continuous functions and applications, *Konuralp J. Math.*, **7** (2) (2019) 319–323.
 23. **M.W. Alomari**, A note on h -convex functions, *e-Journal of Analysis and Applied Mathematics*, **1** (2019) 55–67.
 24. **M.W. Alomari**, Mean-value theorems in hypercuboid, *Commun. Optimization Theory*, Vol. 2019 (2019), Article ID 6, pp. 1–11.
 25. **M.W. Alomari**, Operator Popoviciu's inequality for superquadratic and convex functions of selfadjoint operators in Hilbert spaces, *Advan. Pure Appl. Math.*, **10** (4) (2019), 313–324.
 26. **M.W. Alomari**, On Pompeiu-Chebyshev functional and its generalization, *Results in Mathematics*, **74** (1) (2019), Article 56.
 27. **M.W. Alomari**, The Hermite–Hadamard inequality on hypercuboid, *Journal of Advances in Mathematics*, **16** (2019), 8234–8246.
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2018

28. **M.W. Alomari**, Two-point quadrature rules for Riemann–Stieltjes integrals with L^p -error estimates, *Moroccan J. Pure & Appl. Anal.* (MJPAA), 4 (2) (2018), 94–110.
 29. **M.W. Alomari**, q -Bernoulli inequality, *Turkish J. Sci.*, 3 (1) (2018), 32–39.
 30. **M.W. Alomari** and A. Guessab, L^p -error bounds of two and three-point quadrature rules for Riemann–Stieltjes integrals, *Moroccan J. Pure & Appl. Anal.* (MJPAA), 4 (1) (2018), 33–43.
 31. **M.W. Alomari**, On Pompeiu–Čebyšev type inequalities for positive linear maps of self-adjoint operators in inner product spaces, *Journal of Advances in Mathematics*, 15 (2018), 8081–8092.
 32. **M.W. Alomari**, Mercer’s inequality for h -convex functions, *Turkish J. Ineq.*, 2 (1) (2018), 38–41.
 33. **M.W. Alomari**, Pompeiu–Čebyšev type inequalities for selfadjoint operators in Hilbert spaces, *Adv. Oper. Theory*, 3 no. 3 (2018), 9–22.
 34. **M.W. Alomari** and S.S. Dragomir, A three-point quadrature rule for the Riemann–Stieltjes integral, *Southeast Asian Bulletin Journal of Mathematics*, 42 (1) (2018), 1–14.
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2017

35. **M.W. Alomari** and M.M. Almahameed, Ostrowski’s type inequalities for functions whose first derivatives in absolute value are MN-convex, *Turkish J. Ineq.*, 1 (1) (2017), Pages 53–77.
 36. **M.W. Alomari**, Two-point Ostrowski’s inequality, *Results in Mathematics*, 72 (3), 1499–1523.
 37. **M.W. Alomari**, S. Hussain and Z. Liu, Some Steffensen’s type inequalities, *Advances in Pure and Applied Mathematics*, 8 (3) (2017), 219–226.
 38. **M.W. Alomari**, On Beesack–Wirtinger inequality, *Results in Mathematics*, 72 (3) (2017), 1213–1225.
 39. **M.W. Alomari**, A generalization of Hermite–Hadamard’s inequality, *Kragujevac J. Math.*, 41(2) (2017), 313–328.
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2016

40. **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.
 41. **M.W. Alomari**, Bounds for the weighted Dragomir–Fedotov functional, *Moroccan J. Pure & Appl. Anal.* (MJPAA), 2 (2) (2016), 65–78.
 42. **M.W. Alomari**, New inequalities of Grüss–Lupaş type and applications to selfadjoint operators, *Armen. J. Math.*, 8 (1) (2016), pp. 25–37.
 43. **M.W. Alomari**, Two-dimensional Pompeiu’s mean value theorems and related results, *J. Nonlinear Funct. Anal.*, 2016 (2016), Article ID 8.
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2014

44. **M.W. Alomari**, Approximating the Riemann–Stieltjes integral by a three-point quadrature rule and applications, *Konuralp J. Math.*, 2 (2) (2014), 22–34.
45. **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.

46. **M.W. Alomari**, Difference between two Stieltjes integral means, *Kragujevac J. Math.*, 38(1) (2014), 35–49.
 47. **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.
 48. **M.W. Alomari**, A companion of Grüss type inequality for Riemann–Stieltjes integral and applications, *Matematički Vesnik*, 66 (2) (2014), 202–212.
 49. **M.W. Alomari**, New Grüss type inequalities for double integrals, *Appl. Math. Comp.*, 228 (2014) 102–107.
 50. **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.
 51. **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.
-

2013

52. **M.W. Alomari**, New inequalities of Steffensen’s type for s -convex functions, *Afrika Matematika*, (2013), doi: 10.1007/s13370-013-0175-1.
 53. **M.W. Alomari**, A companion of the generalized trapezoid inequality and applications, *Journal of Math. Appl.*, 36 (2013), 5–15.
 54. **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>.
 55. **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.
 56. **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.
 57. **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.
 58. **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.
 59. S. Hussain and **M.W. Alomari**, Weighted Ostrowski and Čebyšev type inequalities and applications, *Konuralp J. Math.*, 1 (2) (2013), 1–16.
 60. **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.
 61. **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.
-

2012

62. **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.
 63. **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.
 64. **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.
 65. M.A. Latif, **M.W. Alomari**, and S. Hussain, On Ostrowski-type inequalities for functions whose derivatives are m -convex and (α, m) -convex functions with applications, *Tamkang J. Math.*, 43 (4) (2012), 521–532.
 66. **M.W. Alomari**, On approximation of the Riemann–Stieltjes integral and applications, *Publications de l'Institut Mathématique*, 92 (106) (2012), 145–156.
 67. **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.
 68. **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.
 69. **M.W. Alomari**, Some Grüss type inequalities for Riemann-Stieltjes integral and applications, *Acta Mathematica Universitatis Comenianae*, 81 (2) (2012), 211–220.
-

2011

70. **M.W. Alomari**, A companion of Ostrowski's inequality with applications, *Trans. J. Math. Mech.*, (TJMM), 3 (2011), 9–14.
 71. **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.
 72. 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.
 73. **M. Alomari** and S. Hussain, Two inequalities of Simpson type for quasi-convex functions and applications, *Appl. Math. E-Notes*, 11 (2011) 110–117.
 74. M.E. Özdemir, E. Set and **M. Alomari**, Integral inequalities via several kind of convexity, *Creative Mathematics and Informatics*, 20 (2011), 62–73.
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2010

75. **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.
76. **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.
77. **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.

78. **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.
79. **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.
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2009

80. **M. Alomari** and M. Darus, Féjer inequality for double integrals, *Facta Universitatis: Ser. Math. Inform.*, 24 (2009), 15–28.
81. **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.
82. 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.
83. 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.
84. **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.
85. **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.
-

2008

86. **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).
87. **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.
88. **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.
89. **M. Alomari** and M. Darus, The Hadamard's inequality for s -convex function, *Int. Journal of Math. Anal.*, 2 (13) (2008), 639–646.
90. **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.
91. **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.
92. **M. Alomari** and M. Darus, Hadamard-type inequalities for s -convex functions, *Inter. Math. Forum*, 3 (40) (2008), 1965–1975.
93. **M. Alomari** and M. Darus, On co-ordinated s -convex functions, *Inter. Math. Forum*, 3 (40) (2008), 1977–1989.
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MANUSCRIPTS
AND PREPRINTS

I have already finished more than 40 preprints, drafts and monographs (Here just a sample). Some of them are already submitted for possible publication, however, most of the rest are still unpublished. Here is a sample of these works. You may find these works as preprint(s) on arxiv.org.

- 2018
1. Operator Jensen's inequality for operator superquadratic functions, Preprint 2019.
 2. Another proof of Dini's theorem, Preprint, 2018.
 3. Grüss type inequalities for vector-valued functions, in preparation.
 4. Expansion of real functions in terms of some orthogonal polynomials, in preparation.
 5. A general two-point formula, in preparation.
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- 2017
6. On Alzer's inequality, Preprint, 2017.
 7. Generalizations of Guessab-Schmeisser formula via Fink type identity with applications to quadrature rules, Preprint, 2017.
 8. On two inequalities of Čebyšev, Preprint 2017.
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- 2016
9. L_p -Bounds for the Čebyšev functional, Preprint, 2016.
 10. Grüss type inequalities for matrix functions with applications to matrix means, (draft) 2016. (With A. Guessab)
 11. A multidimensional version of Beesack–Darst–Pollard inequality for Riemann–Stieltjes integral, (manuscript) 2016.
 12. A perturbed Milne's quadrature rule for n -times differentiable functions, (manuscript) 2016. (With A.-M. Acu)
 13. On comparing two integral means, (preprint) 2016.
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- 2015
14. Error estimations of general corrected five-point quadrature rules of Newton–Cotes type, (manuscript) 2015.
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- 2014
15. Two point Gauss-Legendre Quadrature Rule for Riemann-Stieltjes integrals, Preprint, 2014.
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CONFERENCES AND SEMINARS

1. Invited speaker and principal presenter at the International Workshop on Functional Analysis and Topological Structure, Department of Mathematics, Faculty of Mathematics, University of Sistan and Baluchestan, Zahedan, I.R.Iran., May, 2022.
2. Invited speaker and principal presenter at the seminar: Refined complex variables: General thoughts, Ideas and Introduction. Organized by the Department of Mathematics & Statistics - Faculty of Science-Mutah University, Jordan, April, 2021.
3. A presentator at the International Conference: Mathematical Modeling with Applications, Mohammed V University, Rabat, University, April, 2019.
4. Seminar on Ostrowski type inequalities with applications, at Universiti Kebangsaan Malaysia, May, 2010.
5. Workshop: Symposium on Geometric Function Theory and its Applications, at Universiti Kebangsaan Malaysia during, October, 7-8, 2009.

6. Workshop: Symposium on Geometric Function Theory and its Applications, at Universiti Kebangsaan Malaysia during, August, 2008.
 7. Presenter in the International Symposium on Geometric Function Theory and its Applications (GFTA 2008), at Universiti Kebangsaan Malaysia, Nov., 10-13, 2008.
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Mathematical Reviews

Review history of Mohammad W. Alomari

40 total reviews

2022 (3 reviews)

- Mar 18 **MR4208295** Wang, Dong-sheng; Shi, Huan-Nan; Fu, Chun-Ru Schur convexity of mixed mean of n variables involving three parameters. *Filomat* **34** (2020), no. 11, 3663--3674. 26E60 (26A51 26D15)
- Feb 22 **MR4221350** Goswami, Angshuman R.; Páles, Zsolt Characterization of approximately monotone and approximately Hölder functions. *Math. Inequal. Appl.* **24** (2021), no. 1, 247--264. 26A48 (26A12 26A16 26A45 26D15 39B72)
- Jan 10 **MR4193540** Furuichi, Shigeru; Minculete, Nicușor Refined inequalities on the weighted logarithmic mean. *J. Math. Inequal.* **14** (2020), no. 4, 1347--1357. 26D15 (26A51 26E60)

2021 (5 reviews)

- Oct 04 **MR4207724** Mondal, Pratikshan; Dey, Lakshmi Kanta; Ali, Sk. Jaker Quasi-uniform and uniform convergence of Riemann and Riemann-type integrable functions with values in a Banach space. *Filomat* **34** (2020), no. 6, 1899--1913. 26E15 (26A42 26E20 40A10 40A30 46G10 54A20)
- Oct 04 **MR4230658** Dragomir, Silvestru Sever Several Grüss' type inequalities for the complex integral. *J. Anal.* **29** (2021), no. 1, 337--351. 26D15 (26D10 30A10)
- Aug 12 **MR4196074** Reinwand, Simon Types of convergence which preserve continuity. *Real Anal. Exchange* **45** (2020), no. 1, 173--204. 26A15 (26A45 40A30 54E45)
- Jul 29 **MR4196217** Dragomir, Silvestru Sever Ostrowski's type inequalities for the complex integral on paths. *Constr. Math. Anal.* **3** (2020), no. 4, 125--138. 30A10 (26D10 26D15)
- Jun 03 **MR4192764** Khalid, Sadia; Pečarić, Josip Refinements of some Hardy-Littlewood-Pólya type inequalities via Green's functions and Fink's identity and related results. *J. Inequal. Appl.* **2020**, Paper No. 260, 15 pp. 26D15 (26A51 52A41)

2019 (11 reviews)

- Aug 29 **MR3949180** Herzog, Gerd; Kunstmann, Peer Chr. Korovkin's theorem for functionals and limits for box integrals. *Amer. Math. Monthly* **126** (2019), no. 5, 449--454. 26E60 (40A05 41A60 47H07)
- Aug 29 **MR3942588** de Oliveira, Oswaldo The implicit function theorem for maps that are only differentiable: an elementary proof. *Real Anal. Exchange* **43** (2018), no. 2, 429--443. 26B10 (26B12 47J06)
- Aug 29 **MR3950217** Kuleshov, A. A. Continuous sums of ridge functions on a convex body with Dini condition on moduli of continuity at boundary points. *Anal. Math.* **45** (2019), no. 2, 335--345. 26B05 (26B40)
- Jun 13 **MR3887204** Roventă, Ionel; Temereanță, Laurențiu Emanuel A note on the positivity of the even degree complete homogeneous symmetric polynomials. *Mediterr. J. Math.* **16** (2019), no. 1, Paper No. 1, 16 pp. 26B25 (05E05 26D05)

- Jun 10 **MR3928282** Dragomir, Silvestru Sever Additive refinements and reverses of Young's operator inequality with applications. *J. Math. Inequal.* **13** (2019), no. 1, 227--249. 26D15 (26D10 47A30 47A63)
- May 30 **MR3868099** Chang, Yu-Lin; Huang, Chien-Hao; Chen, Jein-Shan; Hu, Chu-Chin Some inequalities for means defined on the Lorentz cone. *Math. Inequal. Appl.* **21** (2018), no. 4, 1015--1028. 26E60 (26B35)
- May 24 **MR3911036** Özgen, H. N. On two integrability methods. *Acta Comment. Univ. Tartu. Math.* **22** (2018), no. 2, 257--260. 26A42 (26D15 40A30)
- May 24 **MR3883331** Luo, Chun-Yan; Du, Ting-Song; Kunt, Mehmet; Zhang, Yao Certain new bounds considering the weighted Simpson-like type inequality and applications. *J. Inequal. Appl.* **2018**, Paper No. 332, 20 pp. 26D15 (26A51 41A55)
- Feb 18 **MR3857358** Burtseva, Evgeniya; Lundberg, Staffan; Persson, Lars-Erik; Samko, Natasha Multi-dimensional Hardy type inequalities in Hölder spaces. *J. Math. Inequal.* **12** (2018), no. 3, 719--729. 26D15 (26A16 26B15 46E15 47B38)
- Jan 24 **MR3865160** Phillips, T. R. L.; Schmidt, K. M.; Zhigljavsky, A. Extension of the Schoenberg theorem to integrally conditionally positive definite functions. *J. Math. Anal. Appl.* **470** (2019), no. 1, 659--678. 26B35
- Jan 07 **MR3823603** Yafaev, D. R. Analytic scattering theory for Jacobi operators and Bernstein-Szegő asymptotics of orthogonal polynomials. *Ludwig Faddeev memorial volume, 567--613, World Sci. Publ., Hackensack, NJ, 2018.* 47A40 (33C45 39A70 47B39)

2018 (2 reviews)

- Oct 23 **MR3773103** Bracamonte, M.; Ereú, J.; Giménez, J.; Merentes, N. On metric semigroups-valued functions of bounded Riesz- Φ -variation in several variables. *Bol. Soc. Mat. Mex. (3)* **24** (2018), no. 1, 133--153. 26B30 (26A45 26B35)
- Oct 09 **MR3732817** Ito, Masatoshi Estimations of power difference mean by Heron mean. *J. Math. Inequal.* **11** (2017), no. 3, 831--843. 26E60 (47A63)

2017 (8 reviews)

- Jul 31 **MR3567077** Zhao, Taoyan; Deng, Xiaoyan A matrix inverse pair and elliptic hypergeometric summations. *Int. J. Nonlinear Sci.* **22** (2016), no. 2, 93--99. 40A25 (15A09)
- Jul 27 **MR3524916** El Kassimi, M.; Fahlaoui, S. On estimates for Jacobi-Dunkl transform of Dini-Lipshitz functions. *Nonlinear Stud.* **23** (2016), no. 3, 391--400. 44A15 (26A16)
- Jul 27 **MR3564401** Li, Jin; Zhao, Qingli; Huang, Hongying Error expansion of piecewise constant interpolation rule for certain two-dimensional Cauchy principal value integrals. *Comput. Math. Appl.* **72** (2016), no. 9, 2119--2142. 65D30 (26B15)
- Apr 27 **MR3507593** Stepanova, M. On rational functions of first-class complexity. *Russ. J. Math. Phys.* **23** (2016), no. 2, 251--256. 26C15 (32A99)
- Mar 23 **MR3543804** Craddock, Mark Fundamental solutions for the two dimensional affine group and $H^{\{n+1\}}$. *J. Math. Anal. Appl.* **445** (2017), no. 1, 953--970. 44A05
- Mar 20 **MR3544863** Liu, Xinyu; Lu, Dawei; Song, Lixin Some quicker approximations and inequalities of the Wallis ratio by continued fraction. *Results Math.* **70** (2016), no. 3-4, 325--335. 40A15 (33B15)
- Feb 01 **MR3466009** Liu, Qiong; Chen, Dazhao A Hilbert-type integral inequality with a hybrid kernel and its applications. *Colloq. Math.* **143** (2016), no. 2, 193--207. 26D15
- Jan 06 **MR3480345** Haynes, Alan Equivalence classes of codimension-one cut-and-project nets. *Ergodic Theory Dynam. Systems* **36** (2016), no. 3, 816--831. 26B35 (26B12)

2016 (3 reviews)

- Jun 17 **MR3422519** Sarikaya, Mehmet Zeki; Yaldiz, Hatice On weighted Montgomery identity for Riemann-Liouville fractional integrals. *Mathematica* **56(79)** (2014), no. 1, 74--79. 26D15 (41A55)
- Feb 29 **MR3414627** Pavić, Zlatko Presentation of Young's inequality. *J. Inequal. Spec. Funct.* **6** (2015), no. 3, 17--26. 26D15 (26A48 26A51)
- Feb 17 **MR3342318** Dragomir, S. S. Approximating the Riemann-Stieltjes integral via a Chebyshev type

Feb 17 **MR3072510** Dragomir, S. S. Approximating the Riemann-Stieltjes integral via a Chebyshev type functional. *Acta Comment. Univ. Tartu. Math.* **18** (2014), no. 2, 239--259. 26D15 (26A42 41A55)

2014 (2 reviews)

Mar 25 **MR3053802** Zheng, Kelong Bounds on some new weakly singular Wendroff-type integral inequalities and applications. *J. Inequal. Appl.* **2013**, 2013:159, 11 pp. 26D15

Feb 13 **MR3060860** Zhang, Tian-Yu; Ji, Ai-Ping; Qi, Feng Some inequalities of Hermite-Hadamard type for GA-convex functions with applications to means. *Matematiche (Catania)* **68** (2013), no. 1, 229--239. 26D15 (26A51 41A55)

2013 (3 reviews)

Sep 09 **MR2981749** Latif, M. A. On some Fejér-type inequalities for double integrals. *Tamkang J. Math.* **43** (2012), no. 3, 423--436. 26D15

Aug 29 **MR3017140** Barani, Ali; Ghazanfari, Amir G.; Dragomir, Sever S. Hermite-Hadamard inequality for functions whose derivatives absolute values are preinvex. *J. Inequal. Appl.* **2012**, 2012:247, 9 pp. 26D15

Mar 15 **MR2944115** Zhu, Ling Refinement of an integral inequality. *J. Inequal. Appl.* **2012**, 2012:103, 4 pp. 26D15

2012 (3 reviews)

Nov 27 **MR2919043** Latif, Muhammad Amer On some refinements of Fejér type inequalities via superquadratic functions. *J. Indones. Math. Soc.* **17** (2011), no. 2, 97--122. 26D15

Aug 07 **MR2821870** Vong, Seak Weng A note on some Ostrowski-like type inequalities. *Comput. Math. Appl.* **62** (2011), no. 1, 532--535. 26D15 (65D30)

Jan 23 **MR2792517** Krulić, Kristina; Pečarić, Josip; Smoljak, Ksenija New generalized Steffensen means. *Collect. Math.* **62** (2011), no. 2, 139--150. 26D10