PROF. DR. MOHAMMAD W. ALOMARI

Contact Information

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https://www.scopus.com/authid/detail.uri?authorId=24467708100

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http://www.researchgate.net/profile/Mohammad_Alomari

A Brief Introductory

I received my Ph.D. from the National University of Malaysia in 2011 and began my academic career shortly thereafter as a lecturer at Jerash University. After six months, I was promoted to Assistant Professor, a position I held for two additional years. In the following year, I moved to Jadara University, where I worked until 2014. Toward the end of that year, I joined Irbid National University as an Assistant Professor and researcher.

In 2018, I was promoted to Associate Professor and continued in this role until 2022, when I attained the rank of Full Professor. Over the course of my career, I have taught a wide range of undergraduate courses, as well as four postgraduate courses. I have supervised numerous graduate research projects and contributed to the academic community through the authorship of several books, articles, and book chapters. In 2023, I returned to Jadara University, where I am currently involved in various research projects and continue teaching.

Beyond teaching and research, I have served on several university committees, including the Curriculum Committee and the Research Committee, and remain an active member of multiple professional organizations. I am dedicated to advancing my academic career, contributing to my field, and collaborating with others to drive meaningful progress. In recognition of my contributions, I was listed among the top 2% of the most frequently cited scientists worldwide, as reported by the annual ranking published by Elsevier and Stanford University in October 2023 and September 2024.

Academic Degree

Ph.D in Mathematics.

Academic Rank

Full Professor of Mathematics.

Major

Mathematical Analysis (Real, Complex & Numerical Analysis).

Research Interests

I have several research interests; my main interests are Mathematical Inequalities, Approximations & Expansions, Quadrature rules, Hilbert spaces, Theory of real & complex functions.

Other Interests

Umbral Calculus, 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
WoS: 13 — **Scopus: 14** — **Google Scholar: 27** — **Researchgate (RG): 26**.

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i10-index

Google Scholar: The number of publications with at least 10 citations is **50**.

Sum of Times Cited

Web of Science: **793** — Scopus: **888** — Google Scholar: **3335** — Researchgate (RG): **3262**.

Number of Publications

Web of Science: **72** — Scopus: **69** — Google Scholar: **144** — Researchgate (RG): **214**.

Academic Experience

Full Professor, Jadara University, Irbid, Jordan. Oct. 2023 – Present.

Research Assistant, Full Professor, Al-Zaytoonah University of Jordan, Amman, Jordan, April–November, 2024.

Full Professor, Irbid National University, Irbid, Jordan. Feb. 2022 – Aug. 2023.

Associate Professor, Irbid National University, Irbid, Jordan. Jan. 2018 – Feb. 2022.

Assistant Professor, Irbid National University, Irbid, Jordan. Sep. 2014 – Aug 2023.

Assistant Professor, Jadara University, Jordan. Oct. 2013 – Sep. 2014.

Assistant Professor, Jerash University, Jerash, Jordan. Oct. 2011 – Sep. 2013.

Lecturer, Jerash University, Jerash, Jordan. Feb. 2011 – Sep. 2011.

Graduate Student, Universiti Kebangsaan Malaysia, Malaysia, July, 2006 - January 2011
Ph.D & Masters level coursework & research/consulting projects.

Taught Courses

Undergraduate Level Course (B.Sc.) I Taught most of undergraduate courses many times as a Principal Instructor & coordinator, including:

- Calculus.
- Logic & Set Theory.
- Mathematical Methods.
- Special Functions.
- Numerical Analysis.
- Topology.
- Linear Algebra.
- Ordinary Differential Equations.
- Partial Differential Equations.
- Complex Analysis.
- Real Analysis.

Postgraduate Level Course (M.Sc.) I Taught four graduate level courses, several times, including:

- Measure Theory & Integration.
- Advanced Complex Analysis.
- Ordinary Differential Equations.
- Advanced Numerical Analysis.

Education

Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia.

(1) PhD in Mathematics, 2011.

- Dissertation Title: "Several inequalities of Hermite–Hadamard, Ostrowski & Simpson type for s–convex, quasi–convex & r–convex mappings with some applications."
- Dissertation Topic: "Inequalities & Approximations".
- Advisor: Professor Maslina Darus.

(2) M.Sc., Mathematics, 2007.

- Dissertation Title: "New method to evaluate certain classes of infinite series & 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.

Membership of International of Mathematical Societies & Reviewer

- A member of the American Mathematical Society (AMS), 2019–present. `www.ams.org`
- A member of the European Mathematical Society (EMS), 2018–2022. `https://euromathsoc.org`
- **Reviewer of** Mathematical Reviews since 2011, (Reviewer Number: 077020).
- **Reviewer of** Zentralblatt MATH Reviews since 2016, (Reviewer Number: 16125).

Language(s) Arabic (Native), English (Fluent).

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

Awards & Funds

• Classified within the top 2% of the most frequently cited scientists, Stanford University, Elsevier Data Repository, 2024.

Ioannidis, John P.A. (2024), August 2024 data-update for "Updated science-wide author databases of standardized citation indicators", Elsevier Data Repository, V7

• Classified within the top 2% of the most frequently cited scientists, Stanford University, Elsevier Data Repository, 2023.

Ioannidis, John P.A. (2023), October 2023 data-update for "Updated science-wide author databases of standardized citation indicators", Elsevier Data Repository, V6

• 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 Majors is 63 including Health, Medical, Engineering, Physical & Social Sciences, University of Jordan, March, 2019.

• Full financial PhD research support & fund, Universiti Kebangsaan Malaysia, Faculty of Science & Technology, grant No.: UKM–GUP–TMK–07–02–107, 2-years, Jan., 2008– Dec., 2009.

Administrative Affairs

• Member of Scientific Research Committee, Deanship of Scientific Research, Irbid National University.

• Member of Scientific Journals Accreditation Committee, Deanship of Scientific Research, Irbid National University.

• Member of the promotion committee in the Mathematics Department, Irbid National University & Jadara University.

• Board Member Committee of Faculty of Science & Information Technology, Irbid National University.

• Member of Scientific Research Committee, Department of Mathematics, Irbid National University & Jadara University.

• Member of the Graduate Studies Committee, Department of Mathematics, Jadara University.

• Member of the Study Plan Preparation Committee for Under & Postgraduate studies, Department of Mathematics, Irbid National University & Jadara University.

• Member of Course Equivalency Committee, Department of Mathematics, Irbid National University.

Editorial Boards

Member of editorial board including the following journals:

- Journal of Mathematics-Hindawi (JM); (Integrated to Wiley Online Library).
- Advances in Mathematical Physics-Hindawi (AMP); (Integrated to Wiley Online Library).
- Cogent Mathematics & Statistics (Cogent MS), Taylor & Francis Online.
- Research in Mathematics, Taylor & Francis Online.
- Journal of Mathematics & Statistics Research (JMSR).
- 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).

Active 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 & Technology
- Kragujevac Journal of Mathematics (KJM).
- Journal of Mathematical Analysis & Applications (JMAA).
- Applied Mathematics & Computation (AMC).
- Journal of Computational & Applied Mathematics (CAM).
- Advances in Operator Theory (AOT).
- Journal of Mathematical Sciences (JMS).

- International Journal of Analysis (IJA).
- AIMS Mathematics.

Books Project

• A Comprehensive Journey To Modern Theory of Inequalities: From Basic & Primary to Advanced: Theory & Applications, (In preparation).

• The Two Inequalities of Chebyshev, A Survey of Old and New Results, (draft, unpublished yet).

• Fundamental Mathematical Inequalities, (In preparation).

• Calculus of Lebesgue Integrals: Computational Approach, (In preparation).

Promotion Rank Referee

• A referee for the promotion application of Dr. Tarek S.E. Aboelenen (Qassim University, Saudi Arabia) from the rank of Assistant Professor to the rank of Associate Professor, 2024.

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.

Scientific Committee Member

A Member of Graduate & Oral Examination Committee of Ph.D. Dissertations:

1. Some New Inequalities for Fractional Integrals related to Chebyshev, Grüss & Hadamard type, National University of Malaysia, Malaysia, February 2024. (External Examiner).

A Member of Graduate & Oral Examination 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 & Euler polynomials & applications to quadrature rules, Irbid National University, Jordan, 2020. (Chair)
3. Tests of convergence of double sequence & series of real numbers & functions, Irbid National University, Jordan, 2019. (Chair)
4. Numerical radius inequalities, Irbid National University, Jordan, 2020. (Internal Examiner).
5. p-Groups & 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 initail value problems, Irbid National University, Jordan, 2019. (Internal Examiner).
9. Monotone matrix functions, Irbid National University, Jordan, 2019. (Internal Examiner).

References

- Prof. Dr. Maslina Darus (Full Professor in Complex Analysis), School Of Mathematical Sciences, Universiti Kebangsaan Malaysia, UKM, Bangi, 43600, Selangor, Malaysia. (Advisor)
  e-mail: maslina@ukm.edu.my

- 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. (Indirect Advisor)
  e-mail: sever.dragomir@vu.edu.au

- Prof. Dr. Fuad Kittaneh (Full Professor in Operator Theory), Department of Mathematics, University of Jordan, Amman, Jordan. e-mail: fkitt@ju.edu.jo

- Prof. Dr. Gradimir V. Milovanović (Full Professor in Approximation Theory), Mathematical Institute, Serbian Academy of Sciences & Arts, Kneza Mihaila 36, 11000 Beograd, Serbia.
  e-mail: gvm@mi.sanu.ac.rs

- Prof. Dr. Qutaibah T. Khatatbeh (Full Professor in Differential Equations), Department of Mathematics & Statistics, Jordan University of Science & Technology, Irbid, Jordan.
  e-mail: qutaibeh@just.edu.jo

- Prof. Dr. Ana Maria Acu (Full Professor in Approximation Theory), Lucian Blaga University of Sibiu, Department of Mathematics & Informatics, Str. Dr. I. Ratiu, No.5-7, RO-550012 Sibiu, Romania.
  e-mail: anamaria.acu@ulbsibiu.ro

Publications

2024

1. **M.W. Alomari**, W.G. Alshanti, I.M. Batiha, L. Guran, I.H. Jebril, Differential q-calculus of several variables, *Results in Nonlinear Analysis*, **7** (3) (2024), 109–129.
2. **M.W. Alomari**, M. Bakherad, M. Hajmohamadi, A generalization of the Davis–Wielandt radius for operators, *Boletín de la Sociedad Matemática Mexicana*, **30** (2) (2024), Article No. 57.
3. **M.W. Alomari**, M. Sababheh, C. Conde, H.R. Moradi, Generalized Euclidean operator radius, *Georgian Mathematical Journal*, **31** (3) (2024), 369–380.
4. **M.W. Alomari**, I.M. Batiha, S. Momani, New higher–order implicit method for approximating solutions of the initial value problems, *J. Appl. Math. Comput.* (JAMC), **70** (2024), 3369–3393.
5. **M.W. Alomari**, On Cauchy–Schwarz type inequalities & applications to numerical radius inequalities, *Ricerche di Matematica*, **73** (3) (2024), 1493–1510.

2023

6. **M.W. Alomari**, M. Hajmohamadi, M. Bakherad, Norm–parallelism of Hilbert space operators & the Davis–Wielandt Berezin number, *Journal of Mathematical Inequalities*, **17** (1) (2023), 231–258.
7. **M.W. Alomari**, M. Hajmohamadi, M. Bakherad, C. Chesneau, V. Leiva & C.M. Barreiro, Improvement of Furuta's inequality with applications to numerical radius, *Mathematics*, (MDPI), **11** (2023), 36.
8. **M.W. Alomari**, On the Davis–Wielandt radius inequalities of Hilbert space operators, *Linear & Multilinear Algebra* , 71 (11) (2023), 1804–1828.
9. F. Chien, M. Bakherad & **M.W. Alomari**, Refined Berezin number inequalities via superquadratic & convex functions, *Filomat*, 37 (1), 265-277.

2022

10. **M.W. Alomari**, C. Chesneau, Operator Jensen's inequality for operator superquadratic functions, *Axioms* (MDPI), **11** (11) (2022), 617.
11. M. Kian & **M.W. Alomari**, Improvements of trace inequalities for convex functions, *Annals of Functional Analysis*, **13** (2022), Article number: 64.
12. M. Gürdal & **M.W. Alomari**, Improvements of some Berezin radius inequalities, *Constructive Mathematical Analysis*, **5** (3) (2022), 141–153.
13. **M.W. Alomari**, G. Bercu and C. Chesneau, On the Dragomir extension of Furuta's inequality & Numerical radius, *Symmetry* (MDPI), **14** (7) (2022), 1432.
14. **M.W. Alomari**, C. Chesneau, V. Leiva & C.M. Barreiro, Improvement of some Hayashi–Ostrowski type inequalities with applications in a probability setting, *Mathematics* (MDPI), **10** (13) (2022), 2316.
15. **M.W. Alomari**, K. Shebrawi & C. Chesneau, Some generalized Euclidean operator radius inequalities, *Axioms* (MDPI), **11** (6) (2022), 285.
16. **M.W. Alomari** and C. Chesneau, Bounding the zeros of polynomials using the Frobenius companion matrix partitioned by the Cartesian decomposition, *Algorithms* (MDPI), **15** (6) (2022), 184.
17. **M.W. Alomari**, C. Chesneau & V. Leiva, Grüss type inequalities for vector-valued functions, *Mathematics* (MDPI), **10** (9) 2022, 1535.
18. **M.W. Alomari** and C. Chesneau, On h-superquadratic functions, *Afrika Matematika*, **33** (2022), Article number: 41.

19. **M.W. Alomari** & M.K. Bakula, An application of Hayashi's Inequality for Differentiable functions, *Mathematics* (MDPI), **10** (6) (2022): 907.
20. **M.W. Alomari**, Improvements of some numerical radius inequalities, *Azerbaijan Journal of Mathematics*, **12** (1), (2022), 124–137.
21. **M.W. Alomari**, An inequality of Simpson's type Via Quasi-Convex Mappings with Applications, *Innovative Journal of Mathematics* **1** (1) (2022), 45–51.
22. **M.W. Alomari**, Inequalities for Riemann-Stieltjes integral, *International Journal of Emerging Multidisciplinaries: Mathematics*, **1** (1) (2022), 12–16.
23. **M.W. Alomari**, S. Sahoo & M. Bakherad, Further numerical radius inequalities, *Journal of Mathematical Inequalities*, **16** (1):307–326

2021

24. **M.W. Alomari**, Numerical radius inequalities for Hilbert space operators, *Complex Analysis & Operator Theory*, **15** (4), (2021) Article 111.
25. **M.W. Alomari**, Popoviciu's type inequalities for h-MN-convex functions, *e-Journal of Analysis & Applied Mathematics*, accepted.
26. **M.W. Alomari**, Some numerical radius inequalities for the Čebyšev functional & non-commutative Hilbert space operators, *Khayyam J. Math.*, **7** (1) (2021), 96–108.
27. M.T. Garayev & **M.W. Alomari**, Inequalities for the Berezin number of operators & related questions, *Complex Analysis & Operator Theory*, **15**, Article No. 30, (2021).
28. **M.W. Alomari**, Refinements of some numerical radius inequalities for Hilbert space operators, *Linear & Multilinear Algebra*, **69** (7) (2021), 1208–1223.

2020

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

2019

34. **M.W. Alomari**, Some properties of h-MN-convexity & Jensen's type inequalities, *Journal of Interdisciplinary Mathematics*, **22** (8) (2019), 1349–1395.
35. **M.W. Alomari**, A weighted companion of Ostrowski–Midpoint inequality for mappings of bounded variation, *Konuralp J. Math.*, **7** (2) (2019) 337–343.
36. **M.W. Alomari**, New upper & lower bounds for the trapezoid inequality of absolutely continuous functions & applications, *Konuralp J. Math.*, **7** (2) (2019) 319–323.
37. **M.W. Alomari**, A note on h-convex functions, *e-Journal of Analysis & Applied Mathematics*, **1** (2019) 55–67.
38. **M.W. Alomari**, Mean-value theorems in hypercuboid, *Commun. Optimization Theory*, Vol. 2019 (2019), Article ID 6, pp. 1–11.

39. **M.W. Alomari**, Operator Popoviciu's inequality for superquadratic & convex functions of selfadjoint operators in Hilbert spaces, *Advan. Pure Appl. Math.*, 10 (4) (2019), 313–324.
40. **M.W. Alomari**, On Pompeiu-Chebyshev functional & its generalization, *Results in Mathematics*, **74** (1) (2019), Article 56.
41. **M.W. Alomari**, The Hermite–Hadamard inequality on hypercuboid, *Journal of Advances in Mathematics*, **16** (2019), 8234–8246.

2018

42. **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.
43. **M.W. Alomari**, q–Bernoulli inequality, *Turkish J. Sci.*, **3** (1) (2018), 32–39.
44. **M.W. Alomari** & A. Guessab, L^p–error bounds of two & three–point quadrature rules for Riemann–Stieltjes inegrals, *Moroccan J. Pure & Appl. Anal.* (MJPAA), **4** (1) (2018), 33–43.
45. **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.
46. **M.W. Alomari**, Mercer's inequality for h-convex functions, *Turkish J. Ineq.*, **2** (1) (2018), 38–41.
47. **M.W. Alomari**, Pompeiu–Čebyšev type inequalities for selfadjoint operators in Hilbert spaces, *Adv. Oper. Theory* , **3** no. 3 (2018), 9–22.
48. **M.W. Alomari** & S.S. Dragomir, A three–point quadrature rule for the Riemann–Stieltjes integral, *Southeast Asian Bulletin Journal of Mathematics*, 42 (1) (2018), 1–14.

2017

49. **M.W. Alomari** & 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.
50. **M.W. Alomari**, Two–point Ostrowski's inequality, *Results in Mathematics*, **72** (3), 1499–1523.
51. **M.W. Alomari**, S. Hussain & Z. Liu, Some Steffensen's type inequalities, *Advances in Pure & Applied Mathematics*, **8** (3) (2017), 219–226.
52. **M.W. Alomari**, On Beesack–Wirtinger inequality, *Results in Mathematics*, 72 (3) (2017), 1213–1225.
53. **M.W. Alomari**, A generalization of Hermite–Hadamard's inequality, *Kragujevac J. Math.*, 41(2) (2017), 313-328.

2016

54. **M.W. Alomari**, A sharp companion of Ostrowski's inequality for the Riemann–Stieltjes integral & applications, *Ann. Univ. Paedagog. Crac. Stud. Math.*, 15 (2016), 69–78.
55. **M.W. Alomari**, Bounds for the weighted Dragomir-Fedotov functional, *Moroccan J. Pure & Appl. Anal.* (MJPAA), 2 (2) (2016), 65–78.
56. **M.W. Alomari**, New inequalities of Grüss-Lupaş type & applications to selfadjoint operators, *Armen. J. Math.*, 8 (1) (2016), pp. 25–37.
57. **M.W. Alomari**, Two-dimensional Pompeiu's mean value theorems & related results, *J. Nonlinear Funct. Anal.*, 2016 (2016), Article ID 8.

2014

58. **M.W. Alomari**, Approximating the Riemann-Stieltjes integral by a three-point quadrature rule & applications, *Konuralp J. Math.*, 2 (2) (2014), 22–34.
59. **M.W. Alomari**, New Čebyšev type inequalities & applications for functions of selfadjoint operators on complex Hilbert spaces, *Chinese J. Math.*, Volume 2014, Article ID 363050, 10 pages.
60. **M.W. Alomari**, Difference between two Stieltjes integral means, *Kragujevac J. Math.*, 38(1) (2014), 35–49.
61. **M.W. Alomari** & S.S. Dragomir, Various error estimations for several Newton–Cotes quadrature formulae in terms of at most first derivative & applications in numerical integration, *Jordan J. Math. & Stat.*, 7(2) 2014, 89–108.
62. **M.W. Alomari**, A companion of Grüss type inequality for Riemann–Stieltjes integral & applications, *Matematički Vesnik*, 66 (2) (2014), 202–212.
63. **M.W. Alomari**, New Grüss type inequalities for double integrals, *Appl. Math. Comp.*, 228 (2014) 102–107.
64. **M.W. Alomari** & S.S. Dragomir, New Grüss type inequalities for Riemann–Stieltjes integral with monotonic integrators & applications, *Ann. Funct. Anal.*, 5 (2014), no. 1, 77–93.
65. **M.W. Alomari** & S.S. Dragomir, Some Grüss type inequalities for the Riemann–Stieltjes integral with Lipschitzian integrators, *Konuralp J. Math.*, 2 (1) 2014, 36–44.

2013

66. **M.W. Alomari**, New inequalities of Steffensen's type for s–convex functions, *Afrika Matematika*, (2013), doi: 10.1007/s13370-013-0175-1.
67. **M.W. Alomari**, A companion of the generalized trapezoid inequality & applications, *Journal of Math. Appl.*, 36 (2013), 5–15.
68. **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.
69. **M.W. Alomari** & S.S. Dragomir, Mercer-Trapezoid rule for Riemann–Stieltjes integral with applications, *Journal of Advances in Mathematics*, 2 (2) (2013), 67–85.
70. **M.W. Alomari**, S.S. Dragomir & 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.
71. **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 & u is of r–H–Hölder type & applications, *Appl. Math. Comput.*, 219 (2013), 4792–4799.
72. **M.W. Alomari**, New sharp inequalities of Ostrowski & generalized trapezoid type for the Riemann–Stieltjes integrals & applications, *Ukrainian Mathematical Journal*, 65 (7) (2013), 895–916.
73. S. Hussain & **M.W. Alomari**, Weighted Ostrowski and Čebyšev type inequalities & applications, *Konuralp J. Math.*, 1 (2) (2013), 1–16.
74. **M.W. Alomari** & 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.
75. **M.W. Alomari** & S. Hussain, An inequality of Ostrowski's type for preinvex functions with applications, *Tamsui Oxford J. Math. Sci.*, 29 (1) (2013), 29–37.

2012

76. **M.W. Alomari**, A generalization of companion inequality of Ostrowski's type for mappings whose first derivatives are bounded & applications & in numerical integration, *Trans. J. Math. Mech.*, 4(2) (2012), 103–109.

77. **M.W. Alomari**, Bounds for the Riemann–Stieltjes integral via s–convex integr& or integrator, *Acta et Commentationes Universitatis Tartuensis de Mathematica*, 16 (2) (2012), 1–9.

78. **M.W. Alomari**, M.E. Özdemir & 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.

79. M.A. Latif, **M.W. Alomari**, & S. Hussain, On Ostrowski-type inequalities for functions whose derivatives are m-convex & (α, m)-convex functions with applications, *Tamkang J. Math.*, 43 (4) (2012), 521–532.

80. **M.W. Alomari**, On approximation of the Riemann–Stieltjes integral & applications, *Publications de l'Institut Mathematique*, 92 (106) (2012), 145–156.

81. **M.W. Alomari**, A companion of Dragomir's generalization of Ostrowski's inequality & applications in numerical integration, *Ukrainian Mathematical Journal*, 64 (4) (2012), 491–510.

82. **M.W. Alomari**, A companion of Ostrowski's inequality for mappings whose first derivatives are bounded & applications in numerical integration, *Kragujevac Journal of Mathematics*, 36 (2012), 77–82.

83. **M.W. Alomari**, Some Grüss type inequalities for Riemann-Stieltjes integral & applications, *Acta Mathematica Universitatis Comenianae*, 81 (2) (2012), 211–220.

2011

84. **M.W. Alomari**, A companion of Ostrowski's inequality with applications, *Trans. J. Math. Mech.*, (TJMM), 3 (2011), 9–14.

85. **M. Alomari**, M. Darus & U.S. Kirmaci, Some inequalities of Hermite-Hadamard type for s-convex functions, *Acta Mathematica Scientia*, 2011, 31 B(4) : 1643–1652.

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Manuscripts & Preprints

I have already finished more than 40 preprints, drafts & 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`.

2022

1. Mercer-Popoviciu operator inequality & some realted results, Preprint.
2. A generalization of Euclidean Hilbert-Schmidt operator radius, submitted.
3. Multivariable q-calculus, Preprint.
4. A generalization of Berezin Number, Preprint.
5. A complex version of Pompiue's mean-value theorem, Preprint.
6. On Pompiue–Flett's mean-value theorem, Preprint.

2020

7. The generalized Schwarz inequality for semi-Hilbertian space operators & Some A-numerical radius inequalities, Preprint, 2018.

2018

8. Another proof of Dini's theorem, Preprint, 2018.
9. Expansion of real functions in terms of some orthogonal polynomials, Preprint, 2018.
10. A general two-point formula, Preprint, 2018.

2017

11. On Alzer's inequality, Preprint, 2017.
12. Generalizations of Guessab-Schmeisser formula via Fink type identity with applications to quadrature rules, Preprint, 2017.
13. On two inequalities of Čebyšev, Preprint 2017.

2016

14. L_p-Bounds for the Čebyšev functional, Preprint, 2016.
15. Grüss type inequalities for matrix functions with applications to matrix means, (draft) 2016. (With A. Guessab)
16. A multidimensional version of Beesack–Darst–Pollard inequality for Riemann–Stieltjes integral, (manuscript) 2016.
17. On comparing two integral means, Preprint, 2016.

2015

18. Error estimations of general corrected five-point quadrature rules of Newton–Cotes type, (manuscript) 2015.

2014

19. Two point Gauss-Legendre Quadrature Rule for Riemann-Stieltjes integrals, Preprint, 2014.

Conferences & Seminars

1. Invited speaker & principal presenter at the International Workshop on Functional Analysis & Topological Structure, Department of Mathematics, Faculty of Mathematics, University of Sistan & Baluchestan, Zahedan, I.R.Iran., May, 2022.
2. Invited speaker & principal presenter at the seminar: Refined complex variables: General thoughts, Ideas & 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 & its Applications, at Universiti Kebangsaan Malaysia during, October, 7-8, 2009.
6. Workshop: Symposium on Geometric Function Theory & its Applications, at Universiti Kebangsaan Malaysia during, August, 2008.
7. Presenter in the International Symposium on Geometric Function Theory & its Applications (GFTA 2008), at Universiti Kebangsaan Malaysia, Nov., 10-13, 2008.