

Curriculum Vitae

Ismail Nikoufar

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Generalities:

Born September 23, 1978. Citizen of Iran. Graduated high school 1998.

Academic degrees:

Bachelor of Science, University of Tabriz, 2003.
Master of Science, Amirkabir University, 2005.
Ph.D in Mathematics, Payame Noor University, 2012.

Employment:

The coach, Payame Noor University, 2006-2012.
Assistant Professor, Payame Noor University, 2012-2017.
Associate Professor, Payame Noor University, 2017-.

H-index in Scopus: 9

H-index in Google Scholar: 12 i10-index in Google Scholar: 17

Editorial Board Member:

- Asian Journal of Mathematics and Statistics.

Reviewer:

- Mathematical Reviews.
- ZblMATH.

Referee for Journals:

- (JCR) Mathematische Annalen
- (JCR) Journal of Mathematical Analysis and Applications.
- (JCR) Journal of Mathematical Inequalities.
- (JCR) Analysis Mathematica.
- (JCR) Results in Mathematics.
- (JCR) Filomat.
- (JCR) Journal of Operator Theory.
- (JCR) Journal of Mathematical Physics.
- (JCR) Soft Computing.
- (JCR) Mathematics MDPI.
- (JCR) Symmetry MDPI.
- (JCR) AIMS Mathematics.
- (JCR) Iranian Journal of Science and Technology, Transactions A: Science
- (JCR) Applied Mathematics-A Journal of Chinese Universities
- (JCR) Sahand Communications in Mathematical Analysis.
- (ISI, Scopus) International Journal of Nonlinear Analysis and Applications.
- (Scopus) Acta Mathematica Vietnamica.
- (Scopus) Proceedings of the Institute of Mathematics and Mechanics

- (Scopus) Journal of Nonlinear Functional Analysis.
- (Scopus) Journal of Mathematical and Fundamental Sciences.
- (Scopus) Italian journal of Pure and Applied Mathematics.
- (Scopus) Journal of Mahani Mathematical Research.
- (Scopus) Contemporary Mathematics.
- (Scopus) Khayyam Journal of Mathematics

Research Interest:

- Operator Theory.
- Matrix Theory.
- Functional Analysis.
- Functional Equations.
- Quantum Information Theory (QIT).
- Artificial Neural Network (ANN).

Awards and Achievements:

- Winner of the 5th Iranian Functional Analysis Award in 2015.
- Selected Researcher in Department of Basic Sciences in Payame Noor University in 2022.
- Local Selected Researcher in Department of Basic Sciences in Payame Noor University in 2019.
- Local Selected Researcher in Department of Basic Sciences in Payame Noor University in 2016.
- Top Laboratory Manager in Payame Noor University in 2016.
- The First rank in the Top 25 Hottest Articles published by Science Direct in 2013, Paper entitled: The simplest proof of Lieb concavity theorem, published in Advances in Mathematics.

Papers in Journals:

72. I. Nikoufar and S. S. Dragomir, Some inequalities for the Csiszár f -divergence operator mapping, to appear in Rocky Mountain Journal of Mathematics (2024).
71. (ISI) I. Nikoufar, M. Kanani Arpatapeh, Some closer estimations for Tsallis relative operator entropy, Reviews in Mathematical Physics (2024), 2450022. DOI:10.1142/S0129055X24500223.
70. (ISI) I. Nikoufar, A. Ranjbari, Stability of linear operators in locally convex cones, Bulletin des Sciences Mathématiques 191 (2024), 103380. DOI:10.1016/j.bulsci.2023.103380
69. (ISI) I. Nikoufar, M. Kanani Arpatapeh, Refined estimations for some types of entropies and divergences, Complex Anal. Oper. Theory 17, 98 (2023). DOI:10.1007/s11785-023-01402-3
68. I. Nikoufar, A norm model for the unitary orbit of an irreducible matrix, Wavelets and Linear Algebra, (2022). 10.22072/WALA.2021.129824.1290.
67. (ISI) I. Nikoufar and K. Yanagi, Generalized Operator Shannon Entropy and Related Operator Inequalities, Iran J. Sci. 47 (2023), 1379–1384.
67. (ISI) I. Nikoufar and S. S. Dragomir, Some sharp bounds for the generalized Tsallis relative operator entropy, to appear in FILOMAT.
66. (ISI) I. Nikoufar, An estimation for the ternary generalized ring homomorphism on ternary non-Archimedean Banach algebras, to appear in Miskolc Mathematical Notes.

65. (ISI) M. Moosapoor and I. Nikoufar, Notes about Quasi-mixing Operators, *Sahand Communications in Mathematical Analysis* 21(2) (2024), 305–313.
64. (ISI) I. Nikoufar, A complementary inequality for the information monotonicity of the operator perspective and applications, *Complex Anal. Oper. Theory* 17, 133 (2023). DOI:10.1007/s11785-023-01435-8
63. (ISI) H. Rahimpour and I. Nikoufar, Some results for cyclic weak contractions in modular metric space, *Journal of Linear and Topological Algebra*, 12(01) (2023), 57–66.
62. (ISI) I. Nikoufar, A remark on the Hyers-Ulam-Rassias stability of n -Jordan $*$ -homomorphisms on C^* -algebras, *International Journal of Nonlinear Analysis and Applications*, 15(4) (2023), 1–9. DOI:10.22075/IJNAA.2023.29835.4272.
61. (ISI) S. H. Sayedain, Sh. Najafzadeh, and I. Nikoufar, A new subclass of univalent holomorphic functions based on q -analogue of Noor operator, *International Journal of Nonlinear Analysis and Applications* 14(11) (2023), 181–189.
60. (ISI) I. Nikoufar and Z. B. Shayan, Some operator inequalities in Hilbert C^* -modules via the operator perspective, *Journal of Algebraic Systems* (2024). DOI: 10.22044/JAS.2023.12626.1677.
59. (ISI) I. Nikoufar and H. Rahimpour, Ternary generalized Jordan ring homomorphism on ternary non-Archimedean Banach algebras, *Sahand Communications in Mathematical Analysis* 21(1) (2024), 99–110.
58. (ISI) I. Nikoufar and A. Ebrahimi, R -convex subsets of bimodules over $*$ -rings, *Journal of Algebraic Systems*, 12(1) (2024), 91–103.
57. (ISI) I. Nikoufar and M. Fazlollahi, Some bounds for the generalized Tsallis relative operator entropy, *Mediterranean Journal of Mathematics*, 20, 115 (2023). DOI: 10.1007/s00009-023-02312-6.
56. (ISI) I. Nikoufar and D. Saeedi, Operator inequalities associated with the Kantorovich type inequalities for s -convex functions, *Indian J. Pure Appl. Math.* (2022). DOI: 10.1007/s13226-022-00340-8.
55. (ISI) I. Nikoufar, Some estimations for the generalized relative operator entropy, *Bull. Malays. Math. Sci. Soc.* (2022). DOI: 10.1007/s40840-022-01385-y.
54. (ISI) I. Nikoufar, Almost generalized quadratic functions of three variables in Lipschitz spaces, *Jordan Journal of Mathematics and statistics*, 15(4B), 2022, 1049–1063.
53. (ISI) I. Nikoufar, Lipschitz stability of n -cubic functional equations and applications, *Miskolc Mathematical Notes*, 23(1), (2022), 389–399. ISSN 1787-2413
52. (ISI) M. Moosapoor and I. Nikoufar, Some properties and criteria for sub-chaotic C_0 -semigroups, *Jordan Journal of Mathematics and statistics*, 15(4B), 2022, 1065–1076.
51. (ISI) I. Nikoufar, M. Kanani Arpatapeh, Sharp bounds for the Tsallis relative operator entropy, *Rocky Mountain J. Math.* 52(4), (2022), 1461–1471.
50. (ISI) I. Nikoufar and D. Saeedi, An operator version of the Jensen inequality for s -convex functions, *Complex Anal. Oper. Theory*, 15, 92 (2021). DOI: 10.1007/s11785-021-01139-x.
49. (ISI) R. Khani, Sh. Najafzadeh, A. Ebadian, and I. Nikoufar, The n -Valent Convexity of Frasin Integral Operators, *Ukrainian Mathematical Journal*, 73, (2021), 323–328.
48. (ISI) I. Nikoufar, Multivariate extensions of Lieb's concavity theorem, *Annales Henri Poincaré*, 22, (2021), 1837–1851.
47. (ISI) I. Nikoufar, Some properties of the Tsallis relative operator ϕ -entropy, *Journal of Mathematical Physics Analysis Geometry*, 17(2), (2021), 216–232.
46. (ISI) I. Nikoufar, A new characterization of the operator perspective, *Linear and Multilinear Algebra*, (2021). DOI: 10.1080/03081087.2021.1877247.

45. (ISI) I. Nikoufar, Convex functions on compact C^* -convex sets, *Wavelets and Linear Algebra*, 7(1), (2020), 57–62.
44. (ISI) I. Nikoufar, Z. Yousefzadeh, Inequalities for the generalized Tsallis relative entropy, *Filomat*, 34(8), (2020), 2713–2721.
43. (ISI) I. Nikoufar, D. Saeedi, Some inequalities for P-class functions, *Filomat*, 34(13), (2020), 4555–4566.
42. (ISI) I. Nikoufar, M. Fazlollahi, Equivalence relations among inequalities for some relative operator entropies, *Positivity*, (2020), 1–16.
41. (ISI) I. Nikoufar, Improved operator inequalities of some relative operator entropies, *Positivity*, 24, (2020), 241–251.
40. (ISI) I. Nikoufar, Almost tri-cubic functions with Lipschitz condition, *Tbilisi Mathematical Journal*, 13(2), (2020), 207–216.
39. I. Nikoufar, 3-Quadratic Functions in Lipschitz Spaces, *Contemporary Mathematic*, 1(3), (2020), 127–133.
38. (ISI) I. Nikoufar, On Generalized Notions of Derivations, *Iranian Journal of Science and Technology, Transactions A: Science*, 43, (2019), 2607–2611.
37. (Zbl, MR) I. Nikoufar, Upper bound of the norm of an infinite matrix with positive entries, *Libertas Mathematica*, 39(1), (2019), 63–69.
36. (ISI) I. Nikoufar, Convexity of parameter extensions of some relative operator entropies with a perspective approach, *Glasgow Mathematical Journal*, (2019), 1–8.
35. (ISI) I. Nikoufar, M. Shamohammadi, Multivariate perspectives, *Mathematical Reports*, 21(1), (2019), 1–6.
34. (ISI) I. Nikoufar, Stability of multi-cubic functions via Lipschitz criteria, *J. Nonlinear Funct. Anal.* 2019 (2019), Article ID 6.
33. (ISI) I. Nikoufar, Bounds of some relative operator entropies in a general form, 32(14), (2018), *Filomat*, 5105–5114.
32. (ISI) I. Nikoufar, Stability of Multi-Quadratic Functions in Lipschitz Spaces, *Iranian Journal of Science and Technology, Transactions A: Science*, 43(2), (2018), 621–625.
31. (ISI) I. Nikoufar, A correction to approximation of generalized homomorphisms in quasi-Banach algebras, *Miskolc Mathematical Notes*, 19(1), (2018), 423–430 .
30. (ISI) I. Nikoufar, Behavior of bi-cubic functions in Lipschitz spaces, *Lobachevskii Journal of Mathematics*, 39(6), (2018), 803–808.
29. (ISC, in Persian) I. Nikoufar, Some properties of the parametric relative operator entropy, *Journal of New Researches in Mathematics*, 2(8), (2017), 79–84.
28. (ISI) I. Nikoufar and M. Shamohammadi, Generalized perspectives of functions of several variables, *Mathematical Communications*, 23(1), (2018), 1–8.
27. (ISI) I. Nikoufar and M. Shamohammadi, The converse of the Loewner-Heinz inequality via perspective, *Linear and Multilinear Algebra*, 66(2), (2018), 243–249.
26. (ISI) I. Nikoufar and M. Alinejad, Bounds of generalized relative operator entropies, *Mathematical Inequalities and Applications*, 20(4), (2017), 1067–1078.
25. (ISI) Z. Chen, Z. Ma, I. Nikoufar, and S.-M. Fei, Sharp continuity bounds for entropy and conditional entropy, *Science China Physics, Mechanics and Astronomy* 60(2), (2017), 1–5.
24. (ISI) I. Nikoufar, Approximate tri-quadratic functional equations via Lipschitz conditions, *Mathematica Bohemica*, 142(4), (2017), 337–344.
23. (ISI) I. Nikoufar, A. Ebadian, and M. E. Eshaghi, $(\theta, \phi)^*$ -derivations on complex semi-prime Banach $*$ -algebras, *Analele Stiintifice ale Universitatii Al. I. Cuza din Iasi. Serie Noua. Matematica*, Tomul LXII, 2(1), (2016), 461–466.

22. (Scopus) I. Nikoufar, Lipschitz criteria for bi-quadratic functional equations, *Communications of the Korean Mathematical Society*, 31(4), (2016), 819–825.
21. (Zbl, MR) I. Nikoufar, A note on non-unital homomorphisms on C^* -convex sets in $*$ -rings, *Acta Universitatis Matthiae Belii series Mathematics*, 24, (2016), 21–24.
20. (Scopus) I. Nikoufar, Functions near some (α_1, α_2) -double Jordan derivations in p -Banach algebras, *Bollettino dell'Unione Matematica Italiana*, (2017), 10(2), 191–198.
19. (ISI) I. Nikoufar, Operator versions of Shannon type inequality, *Mathematical Inequalities and Applications* 19(1), (2016), 359–367.
18. (ISI) I. Nikoufar, A perspective approach for characterization of Lieb concavity theorem, *Demonstratio Mathematica* 49(4), (2016), 463–469.
17. (ISI) I. Nikoufar, Erratum to: Quartic functional equations in Lipschitz spaces, *Rendiconti del Circolo Matematico di Palermo* 65(2), (2016), 345–350.
16. (Scopus) I. Nikoufar, Lipschitz approximation of the n -quadratic functional equations, *Mathematica (Cluj)* 57(1-2), (2015), 67–74.
15. (ISI) I. Nikoufar, Quartic functional equations in Lipschitz spaces, *Rendiconti del Circolo Matematico di Palermo* 64(2), (2015), 171–176.
14. (ISC) I. Nikoufar, Superstability of m -additive maps on complete non-Archimedean spaces, *Sahand Communications in Mathematical Analysis* 2(1), (2016), 19–25.
13. (ISI) I. Nikoufar, Jordan (θ, ϕ) -derivations on Hilbert C^* -modules, *Indagationes Mathematicae* 26(2), (2015), 421–430.
12. (ISI) I. Nikoufar, Refined almost double derivations and Lie $*$ -double derivations, *Miskolc Mathematical Notes* 16(2), (2015), 163–171.
11. (ISI) I. Nikoufar, Th. M. Rassias, Approximately algebraic tensor products, *Miskolc Mathematical Notes* 16(1), (2015), 361–368.
10. (Zbl, MR) I. Nikoufar, A note on Hamel bases of Hilbert spaces, *Acta Universitatis Apulensis* 41, (2015), 107–110.
9. (ISI) I. Nikoufar, On operator inequalities of some relative operator entropies, *Advances in Mathematics* 259, (2014), 376–383.
8. (ISI) D. Saeedi, I. Nikoufar, H. Saiflu, Comment on "A uniform boundedness theorem for locally convex cones" [W. Roth, *Proc. Amer. Math. Soc.* 126 (1998), 1973–1982], *Methods of Functional Analysis and Topology* 20(3), (2014), 292–295.
7. (Scopus) A. Ebadian, N. Ghobadipour, I. Nikoufar, M. E. Gordji, Approximation of the cubic functional equations in Lipschitz spaces, *Analysis in Theory and Applications* 30(4), (2014), 354–362.
6. (ISI) I. Nikoufar, Th. M. Rassias, θ -Centralizers on semiprime Banach $*$ -algebras, *Ukrainian Mathematical Journal* 2(66), (2014), 300–310.
5. (ISI) I. Nikoufar, A. Ebadian, M. E. Gordji, The simplest proof of Lieb concavity theorem, *Advances in Mathematics* 248, (2013), 531–533.
4. (Zbl, MR) I. Nikoufar, Generalized Jordan derivations on Frchet algebras, *Funct. Anal. Approxim. Comp* 5, (2013), 59–66.
3. (ISI) A. Ebadian, I. Nikoufar, Th. M. Rassias, N. Ghobadipour, Stability of generalized derivations on Hilbert C^* -modules associated with a pexiderized Cauchy-Jensen type functional equation, *Acta Mathematica Scientia* 32(3), (2012), 1226–1238.
2. (ISI) A. Ebadian, I. Nikoufar, M. E. Gordji, Nearly $(\theta_1, \theta_2, \theta_3, \phi)$ -derivations on C^* -modules, *Int. J. Geom. Methods Mod. Phys* 9 (2012), 1–12.
1. (ISI) A. Ebadian, I. Nikoufar, M. E. Gordji, Perspectives of matrix convex functions, *Proceedings of the National Academy of Sciences* 108(18), (2011), 7313–7314.

Selected recent conference papers:

17. I. Nikoufar, An invitation to some operator entropies, The 12th Seminar on Linear Algebra and its Applications, Sahand University of Technology, Tabriz, Iran (2023).
16. I. Nikoufar, Some properties of multiplicative-additive functions with applications, The 12th Seminar on Linear Algebra and its Applications, Sahand University of Technology, Tabriz, Iran (2023).
15. I. Nikoufar, An operator inequality for multiplicative functions, 25th Seminar on Mathematical Analysis and Its Applications, Lorestan University, Lorestan, Iran (2023).
14. I. Nikoufar, On some improved operator inequalities, 25th Seminar on Mathematical Analysis and Its Applications, Lorestan University, Lorestan, Iran (2023).
13. M. Alinejad and I. Nikoufar, A sharper bound for the relative operator entropy, The 9th Seminar on Linear Algebra and its Applications, University of Tabriz, Tabriz, Iran (2017).
12. I. Nikoufar, The generalized version of WYDL concavity, The 7th National Conference on Mathematics of Payame Noor University, Tabriz, Iran (2015).
11. I. Nikoufar, Continuous derivations on some Banach algebras, The 7th National Conference on Mathematics of Payame Noor University, Tabriz, Iran (2015).
10. I. Nikoufar, On the boundedness of an infinite matrix, The 6th Mathematics Conference of Payame Noor University Eastern Azerbaijan, Bostanabad, Iran (2015).
9. I. Nikoufar, A result on matrix convex sets, The 5th Mathematics Conference of P.N.U. of Benis, Benis, Iran (2014).
8. I. Nikoufar, A note on double derivations on Banach algebras, The 5th Mathematics Conference of P.N.U. of Benis, Benis, Iran (2014).
7. I. Nikoufar, Perturbation of some functional equations in Lipschitz spaces, The 44th Annual Iranian Mathematics Conference, Mashhad, Iran (2013).
6. I. Nikoufar, Automatic continuity of theta-centralizers, The 4th Mathematics Conference of P.N.U., Osko, Iran (2013).
5. I. Nikoufar, Perturbation of derivations via a fixed point method, The 4th Mathematics Conference of P.N.U., Osko, Iran (2013).
4. I. Nikoufar, Superstability of double derivations, International Conference on Functional Equations, Geometric Functions and Applications, Tabriz, Iran (2012).
3. I. Nikoufar, On ϕ -multipliers, International Conference on Functional Equations, Geometric Functions and Applications, Tabriz, Iran (2012).
2. I. Nikoufar, Optimality conditions on C^* -convex sets, 41st Annual Iranian Mathematics Conference, Orumieh, Iran (2010).
1. I. Nikoufar, The relation between barrels of a L.C.S and a L.C.C, The 38th Annual Iranian Mathematics Conference, Zanjan, Iran (2007).

Research Projects (Grants from Payame Noor University):

16. I. Nikoufar, Some operator inequalities, 2024.
15. I. Nikoufar, Some sharp bounds for the generalized Tsallis relative operator entropy, 2023.
14. I. Nikoufar, Some estimations for the generalized relative operator entropy, 2022.
13. I. Nikoufar, Refining some inequalities, 2021.
12. I. Nikoufar, The effect of Hermit-Hadamard inequality on operator inequalities, 2020.
11. I. Nikoufar, Properties of operator convex functions and its applications, 2019.

10. I. Nikoufar, Stability of cubic functional equations of multi variables via Lipschitz criteria, 2018.
9. I. Nikoufar, A correction to approximation of generalized homomorphisms in quasi-Banach algebras, 2017.
8. I. Nikoufar, Applications of multivariate perspectives, 2016.
7. I. Nikoufar, A note on stability of quartic functional equations in Lipschitz spaces, 2015.
6. I. Nikoufar, Comment on “A uniform boundedness theorem for locally convex cones”, 2014
5. I. Nikoufar, Generalized Jordan derivations on Frechet algebras, 2013
4. A. Mohammadi and I. Nikoufar, Stability of additive mappings of first and second form in Random Normed spaces, 2011
3. I. Nikoufar, Noncommutative convexity on $\ast$ -rings, 2011
2. I. Nikoufar, Some algebraic properties of f -homomorphisms on R -convex sets, 2008
1. I. Nikoufar, Optimal points of f -homomorphisms on A -convex sets, 2008

Workshop Talks:

1. I. Nikoufar, Noncommutative operator perspective and applications, Functional Analysis Seminar at University of Georgia, April 14, 2021. <https://reformatics.org/seminar/>

Ph.D. students graduated:

9. M. Asadi, Payame Noor University (in preparation).
8. H. Abedi, Payame Noor University (in preparation).
7. Z. Shayan, Payame Noor University (August 2023).
6. M. Fazlollahi, Payame Noor University, July 2022.
5. M. Kanani, Payame Noor University, February 2022.
4. D. Saeedi, Payame Noor University, February 2022.
3. Z. Yousefzadeh, Payame Noor University, February 2021.
2. M. Alinejad, Payame Noor University, February 2021.
1. M. Shamohammadi, Payame Noor University, May 2017.