



Mojtaba Bakherad Associate Professor

Faculty : Math

Departments : Mathematics and its applications

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Education

- ✓ MS, Mathematics, Ferdowsi University of Mashhad - 2011
- ✓ PhD, Mathematics, Ferdowsi University of Mashhad - 2014

Courses

- | | |
|------------------|--------------------|
| 1. Mathematics1 | 2. Mathematics2 |
| 3. Mathematics 2 | 4. Real Analysis 1 |

Master Thesis

1. Surveying of the operator means means via convex functions

فاطمه نجف زاده, [Alireza Ahmadi Ledari, Mojtaba Bakherad]
نیمسال اول سال تحصیلی 99-00

2. Investigation of the orthogonality and parallelism properties on norm spaces

زهرا بامری, [Mojtaba Bakherad, Omid Zabeti, S S]
نیمسال دوم سال تحصیلی 98-99

3. Surveying of the operator means means via convex functions

فاطمه نجف زاده, [Mojtaba Bakherad]
نیمسال دوم سال تحصیلی 98-99

4. Bibasic sequences in Banach lattices

سمیه نایگونی, [Omid Zabeti, Mojtaba Bakherad, S S]
نیمسال دوم سال تحصیلی 98-99

5. Investigation on special kinds of inequalities on Hilbert operators

داود افراز, [Rahmatollah Lashkaripour, Mojtaba Bakherad]
نیمسال اول سال تحصیلی 98-99

6. Investigation of some inequalities involving operator increasing functions and their refinements

محمد رضا بادینی, [Mojtaba Bakherad]
نیمسال دوم سال تحصیلی 97-98

7. Study of SIS epidemic model entropy approach

عبدالجبار اربابی, [Seyyed Alireza Ahmadi, Mojtaba Bakherad]
نیمسال دوم سال تحصیلی 97-98

8. Application of fractional-order legendre-Laguerre functions in solving fractional differential equations

کبری درخشان, [Maryam Arab Ameri, Mojtaba Bakherad]
نیمسال دوم سال تحصیلی 97-98

9. Classes of some real valued functions and their extensions on operators

فرشته ریگی, [Mojtaba Bakherad]
نیمسال اول سال تحصیلی 96-97

10. Survey and extension of some inequalities on operators

منیره حاج محمدی, [Rahmatollah Lashkaripour, Mojtaba Bakherad]
نیمسال اول سال تحصیلی 95-96

Journals Papers

2023

1. Refined Berezin number inequalities via superquadratic and convex functions

Chien Fengsheng, Mojtaba Bakherad, Alomari Mohammad W.

Filomat Volume: (37) 265 - 277

2. Improvement of Furuta's Inequality with Applications to Numerical Radius

Mohammad Alomari, Mojtaba Bakherad, Monire Hajmohamadi, Christophe Chesneau, Victor Leiva, Carlos

Mathematics Volume: (11) 01 - 11

3. Norm-parallelism of Hilbert space operators and the Davis-Wielandt Berezin number

Alomari Mohammad W., Monire Hajmohamadi, Mojtaba Bakherad

Journal of Mathematical Inequalities Volume: (17) 231 - 258

4. Normal Shape and Numerical Range of a Real 2-Toeplitz Tridiagonal Matrix

Rahmatollah Lashkaripour, Mojtaba Bakherad, Monire Hajmohamadi

Bulletin of the Malaysian Mathematical Sciences Society Volume: (46) 1 - 20

5. An extension of the Euclidean Berezin number

Nooshin Eslami mahdi abadi, Mojtaba Bakherad

Filomat Volume: (37) 8377 - 8388

6. The weighted and the Davis-Wielandt Berezin number

Mubariz Garayev, Mojtaba Bakherad, Ramiz Tapdigoglu

Operators and Matrices Volume: (17) 469 - 484

7. Some estimates for the generalized numerical radius

Mojtaba Bakherad, Monire Hajmohamadi, Rahmatollah Lashkaripour, Mohamamd Sababheh

Journal of Analysis Volume: (31) 2163 - 2172

2022

8. Further numerical radius inequalities

Mohammad W. ALOMARI, SATYAJIT SAHOO , Mojtaba Bakherad

Journal of Mathematical Inequalities Volume: (16) 307 - 326

2021

9. Further refinements of generalized numerical radius inequalities for Hilbert space operators

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

Georgian Mathematical Journal Volume: (28) 83 - 92

10. New generalized inequalities using arbitrary operator means and their duals

Nasiri Leila, Mojtaba Bakherad

Annals of the University of Craiova, Mathematics and Computer Science Series Volume: (1) 1 - 9

11. Some extended Berezin number inequalities

Sahoo Satyajit, Mojtaba Bakherad

Filomat Volume: (35) 2043 - 2053

12. SOME EXTENSIONS OF BEREZIN NUMBER INEQUALITIES ON OPERATORS

Mojtaba Bakherad, Monire Hajmohamadi, Rahmatollah Lashkaripour, Sahoo Satyatjit

ROCKY MOUNTAIN JOURNAL OF MATHEMATICS Volume: (51) 1941 - 1951

2020

13. Improvements of Berezin number inequalities

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

LINEAR and MULTILINEAR ALGEBRA Volume: (68) 1218 - 1229

14. New estimations for the Berezin number inequality

Mojtaba Bakherad, Ulas Yamanc

JOURNAL OF INEQUALITIES AND APPLICATIONS Volume: (2020) 1 - 9

15. Norm inequalities involving a special class of functions for sector matrices

Davood Afraz, Rahmatollah Lashkaripour, Mojtaba Bakherad

JOURNAL OF INEQUALITIES AND APPLICATIONS Volume: (20) 1 - 11

2019

16. Some extensions of the operator entropy type inequalities

Mojtaba Bakherad, Ali Morassaei

LINEAR and MULTILINEAR ALGEBRA Volume: (67) 871 - 885

17. Numerical Radius Inequalities Involving Commutators of G_1 Operators

Mojtaba Bakherad, Fuad Kittaneh

Complex Analysis and Operator Theory Volume: (13) 1557 - 1567

18. Improvements of some operator inequalities involving positive linear maps via the Kantorovich constant

Leila Nasiri, Mojtaba Bakherad

HOUSTON JOURNAL OF MATHEMATICS Volume: (45) 815 - 830

19. Some generalized numerical radius inequalities involving Kwong functions

Mojtaba Bakherad

Hacettepe Journal of Mathematics and Statistics Volume: (48) 951 - 958

20. Noncommutative Chebyshev Inequality Involving the Hadamard Product

Mojtaba Bakherad, Silvestru Sever Dragomir

Azerbaijan Journal of Mathematics Volume: (9) 46 - 58

21. Berezin number inequalities for operators

Mojtaba Bakherad, Mubariz Karaev

Concrete Operators Volume: (1) 33 - 43

22. Further refinements of generalized numerical radius inequalities for Hilbert space operator

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

Georgian Mathematical Journal Volume: (0) 0 - 0

23. A New Estimation for Eigenvalues of Matrix Power Functions

M. Kian, Mojtaba Bakherad

Analysis Mathematica Volume: (45) 527 - 534

24. COMPLETE REFINEMENTS OF THE BEREZIN NUMBER INEQUALITIES

Mojtaba Bakherad, Rahmatollah Lashkaripour, Monire Hajmohamadi, Ulas Yamanci

Journal of Mathematical Inequalities Volume: (13) 1117 - 1128

25. بهبودهایی از نامساوی های توابع محدب هندسی برای عملگرها

Mojtaba Bakherad, Rahmatollah Lashkaripour, Monire Hajmohamadi, Alireza Ahmadi Ledari

Wavelets and Linear Algebra Volume: (6) 55 - 70

2018

26. Some Reversed and Refined Callebaut Inequalities Via Kontorovich Constant

Mojtaba Bakherad

Bulletin of the Malaysian Mathematical Sciences Society Volume: (2) 765 - 777

27. UPPER BOUNDS FOR NUMERICAL RADIUS INEQUALITIES INVOLVING OFF-DIAGONAL OPERATOR MATRICES

Mojtaba Bakherad, Khalid Shebrawi

Annals of Functional Analysis Volume: (3) 297 - 309

28. Some Extensions of the Young and Heinz Inequalities for Matrices

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

Bulletin of the Iranian Mathematical Society Volume: (44) 977 - 990

29. UNITARILY INVARIANT NORM INEQUALITIES INVOLVING G_1 OPERATORS

Mojtaba Bakherad

Communications of the Korean Mathematical Society Volume: (33) 889 - 899

30. Reverses of Andos and Holder-McCartys inequalities

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

JOURNAL OF INEQUALITIES AND APPLICATIONS Volume: (1) 1 - 15

31. Some generalizations of numerical radius on off diagonal part of two in two operator matrices

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

Journal of Mathematical Inequalities Volume: (12) 447 - 457

32. Some Berezin Number Inequalities for Operator Matrices

Mojtaba Bakherad

CZECHOSLOVAK MATHEMATICAL JOURNAL Volume: (68) 997 - 1009

33. Some Matrix Power and Karcher Means Inequalities Involving Positive Linear Maps

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

Filomat Volume: (32) 2625 - 2634

34. Interpolating operator Jensen-type inequalities for log-convex and superquadratic functions

Mojtaba Bakherad, Mohsen Kian, Mario Krnic, Seyyed Alireza Ahmadi

Filomat Volume: (32) 4523 - 4535

35. Generalizations of the Aluthge transform of operators

Khalid Shebrawi, Mojtaba Bakherad

Filomat Volume: (32) 6465 - 6474

2017

36. A variational iteration method for solving nonlinear Lane-Emden problems

- -, Mojtaba Bakherad

NEW ASTRONOMY Volume: (54) 1 - 6

37. Extensions of interpolation between the arithmetic-geometric mean inequality for matrices

Mojtaba Bakherad, Rahmatollah Lashkaripour, Monire Hajmohamadi

JOURNAL OF INEQUALITIES AND APPLICATIONS Volume: (2017.209) 1 - 10

[38. Extensions of interpolation between the arithmetic-geometric mean inequality for matrices](#)

Mojtaba Bakherad, Rahmatollah Lashkaripour, Monire Hajmohamadi

JOURNAL OF INEQUALITIES AND APPLICATIONS Volume: (1) 1 - 10

2016

[39. Refinements of a reversed AM-GM operator inequality](#)

Mojtaba Bakherad

LINEAR and MULTILINEAR ALGEBRA Volume: (64) 1687 - 1695

[40. Reverse Young-type inequalities for matrices and operators](#)

Mojtaba Bakherad, Mario Krnic,

ROCKY MOUNTAIN JOURNAL OF MATHEMATICS Volume: (46) 1089 - 1105

2015

[41. Some operator Bellman type inequalities](#)

Mojtaba Bakherad,

INDAGATIONES MATHEMATICAE-NEW SERIES Volume: (26) 646 - 659

[42. Reverses and variations of Heinz inequality](#)

Mojtaba Bakherad, - -

LINEAR and MULTILINEAR ALGEBRA Volume: (63) 1972 - 1980

[43. Complementary and refined inequalities of Callebaut inequality for operators](#)

Mojtaba Bakherad, - -

LINEAR and MULTILINEAR ALGEBRA Volume: (63) 1678 - 1692

2014

[44. Operator P-class functions](#)

Mojtaba Bakherad, , ,

JOURNAL OF INEQUALITIES AND APPLICATIONS Volume: (451) 1 - 8

[45. Chebyshev type inequalities for Hilbert space operators](#)

Mojtaba Bakherad,

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: (420) 737 - 749

[46. Further refinements of the Cauchy-Schwarz inequality for matrices](#)

Mojtaba Bakherad

contemporary analysis and applied mathematics Volume: (2) 268 - 276

Conferences Papers

2023

1. [Norm inequalities for sectorial matrices](#)

Davood Afraz, Rahmatollah Lashkaripour, Mojtaba Bakherad

2021

2. [A glimpse to the Berezin numbers inequality](#)

8th European Congress of Mathematics (8ECM)

Mojtaba Bakherad

2020

3. [More accurate generalizations of Berezin number inequalities](#)

Rahmatollah Lashkaripour, Mojtaba Bakherad, Monire Hajmohamadi

2019

4. [More accurate numerical radius inequalities](#)

INTERNATIONAL CONFERENCE ON MATHEMATICS

Mojtaba Bakherad

2018

5. [Log convex functions and some consequences](#)

Seminar in Harmonic analysis and applications

Mojtaba Bakherad

6. [Refinements of the Young inequality and their noncommutative cases](#)

Seminar in Harmonic analysis and applications

Mojtaba Bakherad

7. [Soma new result the for Berezin number](#)

The International Conference in Harmonic Analysis

Mojtaba Bakherad

8. [Noncommutative operator entropy](#)

2nd Conference on Dynamical System and Geometric Theories

Mojtaba Bakherad

2017

9. Numerical radius inequalities via elementary operators

Banach space and operator theory and its applications

Mojtaba Bakherad

10. SOME OPERATOR INEQUALITIES INVOLVING POSITIVE LINEAR MAPS

The 3rd Seminar on Operator Theory and its Applications

Mojtaba Bakherad

11. Some extensions of numerical radius operator matrices

Monire Hajmohamadi, Rahmatollah Lashkaripour, Mojtaba Bakherad

12. Some extensions of numerical radius operator matrices

The 3rd seminar on operator theory

Rahmatollah Lashkaripour, Mojtaba Bakherad, Monire Hajmohamadi

13. Some Extension of Numerical Radius on Operator Matrices

3rd seminar on operators theory and its applications

Rahmatollah Lashkaripour, Mojtaba Bakherad, Monire Hajmohamadi

2015

14. Some operators inequalities via Kontrovich constant

International Workshop on Operator Theory and Applications

Mojtaba Bakherad

15. A DIFFERENCE TYPE REVERSE OF THE OPERATOR BELLMAN INEQUALITY

The 8th Seminar on Linear Algebra and its Applications

- -, Mojtaba Bakherad

Executive activities

فرصت مطالعاتي

from 1400/07/01 - to 1400/11/15