



CURRICULUM VITAE



Mehdi Mohammadzadeh Karizaki

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(I) Personal Data

Name : Mehdi

Surname: Mohammadzadeh Karizaki

Birth day: 09/08/1984

Place of birth: Torbat Heydarieh, Iran

Nationality: Iranian

Title of M.Sc Thesis: Admissible subgroups $GL(n,R)$ associated with Continuous wavelet transform

M.Sc. Supervisor: Professor Ali Akbar Arefijamaal

Title of Ph.D Dissertation: Operators with closed ranges in Hilbert C^* -module

Ph.D. Supervisor: Professor Mahmoud Hassani

Present job: Assistant Professor of Mathematics

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Google Scholar:

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(II) Journal publication

- 1-M. Jalaieian, M. Mohammadzadeh Karizaki, M Hassani , The product of operators and their Moore-Penrose inverses on Hilbert C*-modules, OAM journal (To appear)(2021)**
- 2-M Mohammadzadeh Karizaki Z. N. Moghani, M. Khanehgir, solutions of Sylvester equation in C*-modular operators, Ukrainian mathematical journal, To appear (2021)**
- 3- M. Mohammadzadeh Karizaki, D.S. Djordjevic, A Hosseini, M. Jalaieian, Some results about EP modular operators, Linear and Multilinear Algebra, 1-7 <https://doi.org/10.1080/03081087.2020.1844613> (2020)**
- 4-Mehdi Mohammadzadeh Karizaki, Polar dcomposition and characterization of binormal operators, Filomat, 34 (3), 1015-1026, (2020)**
- 5-M Jalaieian, M Mohammadzadeh Karizaki, M Hassani, Conditions that the product of operators is an EP operator in Hilbert C*-module, Linear and Multilinear Algebra, 68 (10), 1990-2004 (2020)**
- 6-A. Hosseini, M. Mohammadzadeh Karizaki, linear mappings satisfying some recursive sequences, turkish journal of mathematics 44 (5), 1578-1594 (2020)**
- 7-A. Hosseini, M. Mohammadzadeh Karizaki, Functional Equations Characterizing S -Derivations, Acta Scientiarum Mathematicarum 85 (34), 431-440 (2019)**

8-M Mohammadzadeh Karizaki Z. N. Moghani, M. Khanehgir, Explicit solution to the operator equation $AXD+FX*B=C$ over Hilbert C^* -modules, Journal of Mathematical Analysis 10 (1), 52-64

9-M Mohammadzadeh Karizaki, A Hosseini, Solutions the operator equations $X-AX B=C$ and $AX+X*C=B$ in Hilbert C^* - modules, Wavelet and Linear Algebra 6 (2), 191-208 (2019)

10-Maryam Jalaeian, Mehdi Mohammadzadeh Karizaki, M. Hassani, The star order on C^* -modular operators, Functional Analysis, Approximation and Computation 12 (1), 71-80 (2020)

11- M Mohammadzadeh Karizaki, Antisymmetric relations of operators which satisfy specified conditions, Functional Analysis, Approximation and Computation 10 (3), 15–20 (2018)

12-Mehdi Mohammadzadeh Karizaki, Dragan S. Djordjevic, Commuting C^* modular operators, Aequationes mathematicae, 90 (2016), 1103–1114

13-Mehdi Mohammadzadeh Karizaki, Mahmoud Hassani, Maryam Amyari, Moore-Penrose Inverse of Product Operators in Hilbert C^* -Modules, Filomat 30:13 (2016), 3397–3402

14-M. Mohammadzadeh Karizaki, M. Hassani, And S. S. Dragomir, Explicit Solution To Modular Operator Equation $TXS^* - SX*T^* = A$, Kragujevac Journal of Mathematics, 40(2) (2016), 280–289.

15- Mehdi Mohammadzadeh Karizaki, Mahmoud Hassani, The Solutions To Some Operator Equations In Hilbert C^* -Module, Journal Of Linear And Topological Algebra, Vol. 04, No. 01, 2015, 35- 42

16-Javad Farokhi-Ostad, Mehdi Mohammadzadeh Karizaki, The reverse order law for EP modular operators, *J. Math. Computer Sci.* 16 (2016), 412–418

17- Mehdi Mohammadzadeh Karizaki, Mahmoud Hassani, Dragan S. Djordjevic, The solutions to the operator equation $TXS - SX^*T^* = A$ in Hilbert C^* -modules, *Int. J. Nonlinear Anal. Appl.* 7 (2016) No. 2, 127-132

18- M. Mohammadzadeh Karizaki, D. S. Djordjevic, The Solutions To Some The Operator Equation In Hilbert C^* -Module, *Functional Analysis, Approximation And Computation* 8 (1) (2016), 7-13

19- A. A. Arefijamaal And Mehdi Mohammadzadeh Karizaki, A Generalization Of The Calderon, Admissibility Condition, *European Journal Of Pure And Applied Mathematics*, Vol. 8, No. 3, 2015, 368-374

20- M. Mohammadzadeh Karizaki, M. Hassani, M. Amyari and M. Khosravi, Operator matrix of MoorePenrose inverse operators on Hilbert C^* -modules, *Colloq. Math.* 140 (2015) 171–182.

(III)-Conference Papers

1- Mehdi Mohammadzadekarizaki and Javad Farrokhi, A characterization of arbitrary admissible groups (presented the seminar 1st seminar on harmonic analysis and applications)

2- Mehdi Mohammadzadeh Karizaki, a generalization of admissible groups(presented the 45th annual iranian mathematics conference)

- 3- Mehdi Mohammadzadekarizaki and Javad Farrokhi, Moore-Penrose inverse of product bounded adjointable module maps (presented the 45th annual iranian mathematics conference)**

- 4- Mehdi Mohammadzadeh Karizaki, Mahmoud Hassani, Moore-Penrose inverse and range property (presented the 7th seminar on linear algebra and its applications) page 193-196**

- 5- Mehdi Mohammadzadeh Karizaki, Mahmoud Hassani , Some result of orthonormal bases in Hilbert C*-modules (presented the 7th seminar on linear algebra and its applications) page 390-393**

- 6- Mehdi Mohammadzadeh Karizaki, Mahmoud Hassani, Moore-Penrose inverse and invertible operator in Hilbert modules (presented the 44th annual iranian mathematics conference) page 362-365**

- 7- M. Mohammadzadeh Karizaki, M. Hassani, J. Farrokhi Ostad, The product of operators matrix with closed ranges (presented the 21th Seminar on Mathematical Analysis and its Applications iran)**

- 8- Mehdi Mohammadzadeh Karizaki, Javad Farokhi Ostad, EP modular operators and triple reverse order law (presented the seminar 3st seminar on harmonic analysis and applications)**

- 9- Javad Farokhi Ostad, Mehdi Mohammadzadeh Karizaki, COMMUTING MODULAR OPERATORS (presented The 2th Seminar on Operator Theory and its Applications)**

10- Mehdi Mohammadzadeh Karizaki, Javad Farokhi Ostad, THE REVERSE ORDER LAW (presented The 2th Seminar on Operator Theory and its Applications)

(IV) Professional Memberships

Ordinary member of Amer. Math. Soc. (USA) 2019-present

(V) Services to Professional Communities

- 1. A Reviewer of Mathematical Reviews (American Math. Soc.), 2015-present.***
- 2. A Reviewer of Zentralblatt Math (European Math. Soc.), 2016-present.***
- 3. Referee for some National and International Research Journals.***
- 4. Referee of 49th Annual Iranian Conference, Tehran, Iran, August 2018***

(VI) Research Interests (MSC 2020)

- **15Axx:** Basic linear algebra
- **15Bxx:** Special matrices
- **39Bxx:** Functional equations

- **46Bxx:** Normed linear spaces and Banach spaces; Banach lattices 46C05, Hilbert and preHilbert spaces;
- **46Cxx:** Inner product spaces and their generalizations, Hilbert spaces
- **46Hxx:** Topological algebras, normed rings and algebras, Banach algebras 46L05, General Theory of C*-algebras;
- **46Jxx:** Commutative Banach algebras and commutative topological algebras
- **46Lxx:** Selfadjoint operator algebras 47A05, General (adjoints, conjugates, products, inverses, domains, ranges, etc.);
- **46Txx:** Nonlinear functional analysis
- **47Axx:** General theory of linear operators

- **47Bxx:** Special classes of linear operators
- **47Lxx:** Linear spaces and algebras of operators

(VII) -Teaching Courses

Calculus I-II, Ordinary Differential Equations, Linear

**Algebra, Matrix Analysis, Engineering Mathematics,
Discrete Mathematics , Analysis I-II-III, Numerical analysis**