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Personal Information

Date of birth: **22 November 1982.**

Homepage: **<https://research.uok.ac.ir/k.fallahi/>.**

Position: **Associate Professor in Mathematics.**

Education

PhD. **K. N. Toosi University of Technology, Tehran, Iran (2012).**

Thesis title: The Generalization of Some Fixed Point Theorems in Uniform Spaces

MSc. **K. N. Toosi University of Technology, Tehran, Iran (2008).**

Thesis title: Probabilistic modular spaces and investigation of bounded linear operators

BSc. **Razi University, Kermanshah, Iran (2005).**

Research Interests

Nonlinear Functional Analysis, Fixed Point Theory and Best Proximity Point Theory, Operator theory

Scientific addresses

Orcid ID. **<https://orcid.org/0000-0003-3400-4424>.**

Google scholar. **<https://scholar.google.com/citations?user=AzHHteoAAAAJhl=en>.**

Web of Science
Researcher ID **AAD-8216-2022.**

zbMATH **<https://zbmath.org/?q=ia3Afallahi.kamal>.**

Publications

- H. Ardakani, **K. Fallahi**, *Weak Fixed Point Property of Order p with Respect to Orbits*, J. Math. Anal. Appl., 555(1)(2026), 00-00.
- H. Ardakani, **K. Fallahi**, F. Norouzi, *Weakly p -summable sequence and fixed point theory in Banach Lattices*, Fixed Point Theory, 26(2)(2025), 359-376.
- **K. Fallahi**, A. Petrusel, G. Soleimani Rad, *Vectorially ϕ -contraction mappings and best proximity points*, Rend. Circ. Mat. Palermo, 74 (106) (2025), 1-11.
- B. Fadeee, H. Ghahramani, **K. Fallahi**, *Jordan Centralizers at Commutative Zero Products on Nest Algebras*, **Math. Res.**, 10(4)(2025), 1-12.
- **K. Fallahi**, H. Ardakani, S.Rajavzadeh, *Right fixed point property in Banach Lattices*, Fixed Point Theory, 26 (1) (2025), 135-146.
- **K. Fallahi**, S. jalali, Gh. Soleimani, *BPP and FP of cyclic $\mathcal{G} - (\varphi - \psi)$ -weak contractive mappings in graphical metric spaces and their conequence*, Probl. Anal. Issues Anal., 14 (32) (2025), 88-106.
- **K. Fallahi**, H. Ardakani, S.Rajavzadeh, *Weak fixed point property of order p in Banach lattices*, Positivity, 28 (4) (2024), 1-11.
- Rh.Haghi, A.Safari, **K. Fallahi**, *Weakly and strongly convergence results for Split Variational Inclusion and fixed point problems*, J. Math. Ext., 18 (5) (2024), 1-25.
- **K. Fallahi**, *Graphical Cyclic K -Quasi-Contractive Mappings and the Existence of their Best Proximity Points*, Sahand Commun. Math. Anal., 21 (1) (2024), 307-325.
- **K. Fallahi**, S.Jalali, *Graphical cyclic J -integral Banach type mappings and the existence of their best proximity points*, J. Linear Topol. Algebra, 13 (1) (2024), 1-10.
- **K. Fallahi**, A. Fulga, G. Soleimani Rad, *Best Proximity oints for (φ, ψ) -Weak Contraction and Some Applications*, Filomath, 37 (6) (2023), 1835-1842.
- **K. Fallahi**, H. Ardakani, S. Rajavzade, *Weak fixed point property for a Banach lattice of some compact operator spaces*, Positivity, 27 (1) (2023), 16.
- **K. Fallahi**, M. Ayobian, G. Soleimani Rad, *Best Proximity Point Results for n -Cyclic and Regular- n -Noncyclic Fisher Quasi-Contractions in Metric Spaces*, Symmetry, 15 (7) (2023), 1469.
- S. Rezagholi, M. Hosseini, S. Firouzian, **K. Fallahi**, *Upper Bounds of a Generalized Numerical Radius*, Iran. J. Sci., 47 (3) (2023), 961–967.
- **K. Fallahi**, F. Esmailnia, A. Pourmoslemi, *Integral type contractions and best proximity points*, J. Linear Topol. Algebra, 12(1) (2023), 33-41.

- M. Foroutan, S. Morovvati Darabad, **K. Fallahi**, *A new reproducing kernel method for solving the second order partial differential equation*, Int. J. Nonlinear Anal. Appl., 14(2) (2023), 327-339.
- **K. Fallahi**, H. Ghahramani, *Anti-derivable linear maps at zero on standard operator algebras*, Acta Math. Hungar., 167(1) (2022), 27-294.
- N. Kanzi, **K. Fallahi**, *Stationarity in Nonsmooth Optimization with Switching Constraints*, Iran. J. Sci. Technol. Trans. A Sci., 46(3) (2022), 907-915.
- H. Ghahramani, B. Fadei, **K. Fallahi**, *Linear mappings similar to antiderivaty in orthogonal elements on von Neumann algebras*, Math. Res., 8(2) (2022), 1-8.
- M. Salamatbakhsh, R.H. Haghi, **K. Fallahi**, *Best proximity of proximal F^* -weak contraction*, J. Linear Topol. Algebra, 11 (01) (2022), 15-26.
- M. Ghobadzadeh, N. Kanzi, **K. Fallahi**, *Wolfe Type Duality for Nonsmooth Optimization Problems with Vanishing Constraints*, J. Math. Ext., 16 (9) (2022), 1-17.
- **K. Fallahi**, Sh. Eivani, *Orthogonal b-Metric Spaces and Best Proximity Points*, J. Math. Ext., 16 (6) (2022), 1-17.)
- **K. Fallahi**, G. Soleimani Rad, *b-metric spaces with a graph and best proximity points for some contractions*, J. Linear Topol. Algebra, 10 (4) (2021), 277-286.
- F. G. Shabankareh, N. Kanzi, J. Izadi, **K. Fallahi**, *Guignard Qualifications and Stationary Conditions for Mathematical Programming with Nonsmooth Switching Constraints*, Control Optim. Appl. Math., 6(2) (2021), 23-35.
- H. Ghahramani, **K. Fallahi**, W. Khodakarami, *A note on zero Lie product determined nest algebras as Banach algebras*, Wavelets and Linear Algebra, 8 (1) (2021), 1-6.
- **K. Fallahi**, G. Soleimani Rad, *The Banach type contraction for mappings on algebraic cone metric spaces associated with an algebraic distance and endowed with a graph*, Iran. J. Math. Sci. Inform., 15 (1) (2020) 41-52.
- K. Fallahi, G. Soleimani Rad, *Best proximity Points Theorem in b-Metric Spaces Endowed with a Graph*, Fixed Point Theory, 21(2) (2020), 465-474.
- B. Fadaee, **K. Fallahi**, H. Ghahramani, *Characterization of linear mappings on (Banach)*-algebras by similar properties to derivations*, Math. Slovaca, 70(40) (2020) 1003-1011.
- **K. Fallahi**, G. Soleimani Rad, *Fixed points of a φ -G-contractive mapping with respect to a c-distance on an abstract metric space endowed with a graph*, Math. Notes., 105 (5-6) (2019), 781-788.
- **K. Fallahi**, D. Savić, G. Soleimani Rad, *The existence theorem for contractive mappings on wt-distance in b-metric spaces endowed with a graph and its application*, Sahand Commun. Math. Anal., 13 (1) (2019), 1-15.

- G. Soleimani Rad, **K. Fallahi**, Z. Kadelburg, *New fixed point results under generalized c -distance in tv s-cone b -metric spaces with an application to systems of Fredholm integral equations*, J. Math. Extension. 12 (4) (2018), 1-19.
- **K. Fallahi**, G. Soleimani Rad, *Algebraic distance in algebraic cone metric spaces and its properties*, J. Linear Topol. Algebra, 7 (4) (2018) 273-280.
- **K. Fallahi**, G. Soleimani Rad, S. Radenović, *Algebraic distances in various algebraic cone metric spaces*, Publ. Inst. Math., 104 (118) (2018) 89-99.
- **K. Fallahi**, A. Petrusel, G. Soleimani Rad, *Fixed point results for pointwise Chatterjea type mappings with respect to a c -distance in cone metric spaces endowed with a graph*, U.P.B. Sci. Bull., Ser. A., 80 (1) (2018) 47-54.
- **K. Fallahi**, *Best Proximity Point Result for New Type of Contractions in Metric Spaces with a Graph*, Control Optim. Appl. Math., 3 (1) (2018) 65-73.
- **K. Fallahi**, G. Soleimani Rad, *Generalized c -distance on cone b -metric spaces endowed with a graph and fixed point results*, Appl. Gen. Topol., 18 (2) (2017) 391-400. (SCI)
- **K. Fallahi**, *G-asymptotic contractions in metric spaces with a graph and fixed point results*, Sahand Commun. Math. Anal., 7 (1) (2017) 75-83.
- **K. Fallahi**, *Boyd and Wong's Fixed Point Theorem in Metric Spaces Endowed with a Graph*, Palestine J. Math., 6 (2) (2017) 496-501.
- **K. Fallahi**, G. Soleimani Rad, *Fixed point results in cone metric spaces endowed with a graph*, Sahand Commun. Math. Anal., 6 (1) (2017) 39-47. (SCI)
- R. P. Agarwal, A. Aghanians, **K. Fallahi**, K. Nourouzi, *Coincidence Point Theorems for $E - \psi - \varphi$ and $E - \phi$ Contractions in Partially Ordered Uniform Spaces*, J. Nonlinear Convex Anal., 17 (12) (2016), 2535-2549.
- **K. Fallahi**, A. Aghanians, *On Quasi-Contractions in Metric Spaces with a Graph*, Hacet. J. Math. Stat., 45 (4) (2016) 1033-1047.
- **K. Fallahi**, A. Aghanians, *Fixed Points for Chatterjea Contractions on a Metric Space with a Graph*, Int. J. Nonlinear Anal. Appl., 7 (2) (2016) 49-58.
- A. Aghanians, **K. Fallahi**, K. Nourouzi, R. U. Verma, *Fixed points for Ćirić-G-contractions in uniform spaces endowed with a graph*, Publ. Inst. Math., 97 (111) (2015), 211-223.
- A. Aghanians, **K. Fallahi**, K. Nourouzi, D. O'Regan, *Some coupled coincidence point theorems in partially ordered uniform spaces*, Cubo (Temuco), 16 (2) (2014) 121-134.
- A. Aghanians, **K. Fallahi**, K. Nourouzi, *Fixed Points for E-Asymptotic Contractions and Boyd-Wong Type E-Contractions in Uniform Spaces*, Bull. Iranian Math. Soc., 39 (6) (2013) 1261-1272.

- A. Aghanians, **K. Fallahi**, K. Nourouzi, *An entourage approach to the contraction principle in uniform spaces endowed with a graph*, PanAmerican Math. J., 23 (2) (2013) 87-102.
- A. Aghanians, **K. Fallahi**, K. Nourouzi, *Fixed points for G-contractions on uniform spaces endowed with a graph*, Fixed Point Theory Appl., 2012, 2012:182
- **K. Fallahi**, K. Nourouzi, *Modular locally constant mappings in vector ultrametric spaces*, Abstr. Appl. Anal., V. 2011, Article ID 574756, 8 pages.
- **K. Fallahi**, K. Nourouzi, *Probabilistic Modular Spaces and Linear Operators*, Acta Appl. Math., 105 (2) (2009) 123-140.

Scientific collaborators with joint articles

Iran	Professor Kourosh Nourouzi , <i>Several journals</i> , 2009-2015.
USA	Professor Ravi P. Agarwal , <i>Journal:Journal of Nonlinear and Convex Analysis</i> , 2015.
Ireland	Professor Donal O'Regan , <i>Journal:JCubo (Temuco)</i> , 2014.
USA	Professor Ram U Verma , <i>Journal:Publications de l'Institut Mathematique</i> , 2015.
South Africa	Professor Mujahid Abbas , <i>Journal: Applied General Topology</i> , 2017.
Romania	Professor Adrian Petrusel , <i>Several journals</i> , 2018-2025.
Serbia	Professor Stojan Radenović , <i>UPB Sci. Bull.(Series A)</i> , 2018.
Serbia	Professor Zoran Kadelburg , <i>Journal of Mathematical Extension</i> , 2018.
Spania	Professori D Savic , <i>Sahand Communications in Mathematical Analysis</i> , 2019.
Iran	Professor Hoger Ghahramani , <i>Several journals</i> , 2018-present.
Iran	Professor Ghasem Soleimani Rad , <i>Several journals</i> , 2018-present.
Romania	Professor Andreea Fulga , <i>Filomat</i> , 2023.

Conference Talks

- Existence fixed point in orthogonal b-metric spaces, 52th Annual Iranian Mathematics conference, Shahid Bahonar University of Kerman, Kerman, Iran, September 2021.
- Best proximity point of weak contraction, 52th Annual Iranian Mathematics conference, Shahid Bahonar University of Kerman, Kerman, Iran, September 2021.
- G-Chatterjea contractions in cone metric spaces with cdistance endowed with graph, The 22th Seminar on Mathematical Analysis and its Applications, University of Bonab, Bonab, Iran, January 2017.
- Vector ultrametric spaces and modular locally constant mappings, 46th Annual Iranian Mathematics conference, Yazd University, Yazd, Iran, August 2015.
- On Chatterjea Contractions in Metric Spaces witha Graph, 46th Annual Iranian Mathematics conference, Yazd University, Yazd, Iran, August 2015.

- Common Fixed Point of Maps in Uniform Spaces, 42th Annual Iranian Mathematics conference, University of Rafsanjan, Rafsanjan, Iran, September 2011.
- Best proximity points for $G - \varphi$ -cyclic contractive mappings, The second Asian conference on nonlinear analysis and optimization, Phuket, Thailand, September 2011.
- Linear Operator in probabilistic Modular Spaces, 4th Iranian conference On Applied Mathematics, Bu-Ali University, Hamedan, Iran.
- Bounded linear operator on probabilistic modular spaces, 38th Annual Iranian Mathematics Conference, University of Zanzan, Zanzan, Iran, September 2007.
- Bounded sets in probabilistic normed spaces, 16th Seminar on Mathematical Analysis and its Applications, Ferdowsi University of Mashhad, Mashhad, Iran, February 2007.

Teaching Experience

- | | |
|------------------------------|---|
| ○ Mathematical Analysis I,II | ○ Foundations of Mathematics |
| ○ Calculus I, II, and III | ○ Complex Functions |
| ○ Real analysis I | ○ Functional Analysis |
| ○ Operator Theory | ○ C^* -algebra and Von Neumann algebras |

Published Books

- K. Fallahi, Fundamentals of Mathematical Sciences, Payame Noor University, 2017. (In Persian)

Professional Services

- 2022: Member of Scientific Committee of 8th Seminar of Functional Analysis and its Applications, Ayatollah Boroujerdi University, November 2024
- 2022: Member of Scientific Committee of 53th Annual Iranian Mathematics conference, University of Science and technology of Mazandaran, September 2022
- 2022: Member of Scientific Committee of 10th National Conference on Mathematics, Payame Noor University, Shiraz, May 2022