



Ildar Sadeghi

Professor

College: Faculty of Basic Sciences

Curriculum Vitae
Ildar Sadeghi, PhD
Professor of Mathematics

Personal: Name: *Ildar*

Last Name: *Sadeghi*Tel: +98 412 345 9054
P. O. Box: 53317-11111

Email: esadeqi@sut.ac.ir Or esadeqi@yahoo.com

Current Positions

• Professor- Sahand University of Technology- Iran

Professional Experience:

- Researcher Assistant- Simon Fraser University-Canada (2000)
- Assistant Professor-Sahand University of Technology -Iran (2001-2008)
- Associate Professor- Sahand University of Technology- Iran(2008-2018)
- Chair's office Faculty of Basic Sciences, Sahand University of Technology- Iran (2012-2014)
- One year sabbatical leave at the university of British Columbia, 2017
- Chair's office Faculty of Basic Sciences, Sahand University of Technology- Iran (2020)
- Member of Editorial board for SCMA
- Editor-in-chief for the journal of Sahand Communications in Mathematical Analysis(2020-2023)

Education:

1997-2001: Ph. D., Tabriz University-Tabriz-Iran. 1995-1997: M. Sc., Tabriz University-Tabriz-Iran. 1991-1995: B. Sc., Tabriz University-Tabriz-Iran.

Professional Membership:

- Member of CECM Simon Fraser University- Burnaby- Canada, 2000-present
- Member of Working Group on Generalized Convexity (WGGC). 2000-present
- Member of Iranian Mathematical Society, 1995-present
- Member of Iranian Fuzzy Systems Society, 2007-present

Research Interests:

Geometry of convex analysis, Variational Analysis, Functional analysis, Fuzzy mathematics.

Teaching Experience:

Graduate: Real Analysis, Functional Analysis, Operator Theory, Convex Analysis, Geomerty of Banach Spaces, Variational Analysis.

Undergraduate: Calculus, Mathematical Analysis, Complex Analysis

Awards and Distinctions:

- Top researcher of the Faculty of Science, Sahand University of Tech., 2009.
- Top researcher of the Faculty of Science, Sahand University of Tech., 2011.
- Holding 8-th place of Iranian student math tournament at the Kerman University, Kerman, 1995.
- First ranked M.Sc graduate of Pure Mathematics at the Tabriz University-Tabriz-Iran. 1995.

Current Doctoral Students at the Sahand University of Technology:

- Farnaz Yaghob Azari
- Samira Fatemi

Graduate Students:

(Ph.D. Supervision)

- 1- Mitra Salehi Paydar, Ph.D., (Supervisor) Stability of solution set for equilibrium problems in topological vector spaces, September 2015
- 2- Hassan Gazanfary Asll, Ph.D., (Supervisor) The proof of some integral inequalities for fuzzy integrals, April 2017
- 3- Ali Hassanzadeh, Ph.D., (Supervisor) Extremal principles in Abstract cones and domains, May 2017
- 4- Somayeh Nadi, Ph.D., (Supervisor) Subdifferentials of set-valued functions on Banach spaces, August 2018
- 5- Sima Hassankhali, Ph.D., (Supervisor) Diffrentiability of support function, Nov. 2019

(M. Sc., Supervision):

- 1. M. R. Azimi, Local spectral properties of weighted shifts, Sep. 2005.
- 2. Ali Amiripour, Fuzy bounded linear operators, May 2007.
- 3. Mitra Salehi Paydar, Topological degree theory and fixed point theorems in fuzzy normed space, Feb. 2008
- 4. Farnaz Solati Kia, Fuzzy normed linear spaces and fixed point theorems, Tan. 2008.
- 5. Camelia G. Alizadeh, Recession methods for generalized vector equilibrium problems, October 2008.
- 6. Rasoul Mahjoubi, Hopf C*-algebras, Sep. 2008.
- 7. Farnaz Y. Azari, A comparative study of fuzzy norms on a linear space, Feb. 2009.
- 8. Mina Mokhlesi, Some generation of Ekeland type variational principle with application to equilibrium problems and fixed point theory, Feb. 2010.
- 9. Mahin Mokhtari, Variational analysis of extended generalized equations via coderivative calculus in Asplund spaces, Feb. 2010.
- 10. Soheyla Azarmi, The q-numerical range of normal operators, Feb. 2010.
- 11. Generalized symmetric vector quasieqilibrium problems, Tan. 2010.
- 12. Raziyeh Maadi, Global Lipschitz continuity of solutions to parameterized variational inequalities, January 2011.
- 13. Somayeh Shoorcheh, On existence theorem for monotone and non-monotone variational inequalities and their application in network equilibrium problems, Sep. 2011.
- 14. Hossein Aghebatkheir, On the commutativity degree of compact group, Sep. 2011.
- 15. Rasoul Zohrabi, Critical point theorems and Ekeland type variational principles, Sep. 2012.
- 16. Sedigheh Abolghasemi, Excistence of solutions of vector variational inequalities and vector

- complementarity problems, Sep, 2012.
- 17. Rana Esmaeli aghdam, Lipschitz continuity of an approximate solution mapping to equilibrium problems, July 2013.
- 18. Nasim Hooshdari, Continuity of solutions for parametric variational inequalities in Banach space, July 2013.
- 19. Asghar Ghaffarian, Exictense of solutions of strong vector equil. Problems,
- 20. Fariba Ahmadi, Strong convergence theorem by a new hybrid method for equilibrium problems and variational inequality problems, Sep. 2014.
- 21. Samira Reyhani, Multi-step implicit iterative methods with regularization for minimization problems and fixed point problems, Sep. 2014.
- 22. Mahmod Moslem, Condensing operators and topological degree theory in standard fuzzy normed spaces, Sep. 2014.
- 23. Zahra Chalipa, Non smooth vector optimization problems and Minty vector variational inequalities, Sep, 2014.
- 24. Somayeh Dehghanpor, Some app. Of the KKM mapping principle in Hyperconvex metric spaces, Sep. 2014.
- 25. Masoumeh Velayati, Relation between the convexity of a set and the differentiability of the support function, Sep. 2015.
- 26. Fariba Tahmasbnia, Generalized vector variational like inequalities and vector optimization in Asplund spaces, Sep. 2015.
- 27. Hazhar Khalekani, The Lipschitzianity of convex vector and set-valued functions, Tan. 2018.
- 28. Nasim Nazari, Study of vector complementarity problems and its relation to the variational inequalities, Jan. 2018.
 - 29. Amin Sezari, Linear convergence of circumcentered isometry methods, Sept. 2023.

Technical Reports:

- I. Sadeqi, "A note on the Bishop-Phelps theorem", CECM, Simon Fraser University, Canada, 2001.
- I. Sadeqi, (Invited Speaker) "Geometry of Banach Spaces and variational inequality", The 20th Seminar on Mathematical Analysis and Its Applications, University of Maragheh, Maragheh- Iran, July 2012.
- I. Sadeqi, (Invited Speaker) "A note on variational analysis", Bonab University, 2011.

References:

- Prof. J. Borwein, Simon Fraser University, Burnaby-Canada.
- Prof. Y. Dehgan, Tabriz University- Tabriz-Iran.
- Prof. Prof. Boris Mordokhuvich, Wayne state university, USA.
- Prof. Heinz Baushke, UBC, BC, Canada

Publications:

- 1. I. Sadeqi, Y. Dehghan, The role of Support functionals in topological vector space, IJAM, 7(1999), 757-764.
- 2. I. Sadeqi, Y. Dehghan, Tangent hyperplanes for convex closed sets in topological vector spaces, IJAM, 7(1999), 839-842.
- 3. I. Sadeqi, Y. Dehghan, Some applications of support functionals(sets) in C*- algebras and convexity, 2(2002), 197-202.
- 4. I. Sadeqi, Support functionals and their realation to the Radon –Nikodym property, IJMMS, 16(2004), 827-832.
- 5. Sh. Rezapour, I. Sadeqi, Fuzzy best approximation, The Aligarh Bulletin of Mathematics, 23 (2004), 89-92
- 6. I. Sadeqi, Y. Dehghan, The unit ball of C*-algebra and diff. of convex function, Analsis in Theory and Application, 1 (2005), 53-57.
- 7. I. Sadeqi, F. Solaty, FNLS and its topological structure, Chaos solitions and fractals, Chaos, Solitons & Fractals, 40 (2009), 2576–2589
- 8. I. Sadeqi, F. Solati, Some fixed point theorems in fuzzy reflexive B-Space, Chaos, Solitons & Fractals, 41 (2009), 2606–2612
- 9. I. Sadeqi, M. Salehi, Fuzzy compact operators and topological degree rheory, Fuzzy Sets and Systems,9 (2009), 1277-1285
- 10. I. Sadeqi, F. Solati, The category of fuzzy normed linear spaces, Journal of fuzzy mathematics, 3 (2010)
- 11. I. Sadeqi, F. Yaghoub azari, Gradual normed linear space, IJFS, 5(2011), 131-139.
- 12. I. Sadeqi, K. Alizadeh, Existence of solutions of GVEP in reflexive B-spaces, Nonlinear Analysis: Theory, Methods & Applications, 6(2011), 2226-2234.
- 13. I. Sadeqi, F. Solati, The Notion of Fuzzy Banach Algebra, Journal of fuzzy mathematics , JFM, 4(2011), 939-950.
- 14. Sadeqi, I., Moradlou, F., Salehi, M., On approximate Cauchy equation in Felbin's type fuzzy normed linear spaces, Iran. J. Fuzzy Syst. 10, No. 3, 2013, pp. 51-63.
- 15. F. Moradlou, S. Rezaee, I. Sadeqi, Approximate quadratic functional equation in Felbin's type normed linear spaces, Hacettepe J. Math. Stat., 42 (2013) 501-516
- 16. I. Sadeqi, M. Salehi, The comparative study of F-hemicontinuity and B-pseudomonotonicity of mappings and existence results, Journal of optimazition theory and application, 2015,344-358
- 17. I. Sadeqi, F. Yaghoub azari, The comprative study of gradual and fuzzy normed linear spaces, journal of Intelligent and Fuzzy Systems, 2016, 1195-1198.
- 18. I. Sadeqi, M. Salehi, Lipschitz continuity of an approximate solution mapping for set-valued vector equilibrium problems, Journal of Optimization.65(5), 2016,
- 19. F. Moradlou, S.Rezaee and I. Sadeqi; "Approximate Quadratic functional equation in Felbin's type normed linear spaces" Hacet. J. Math. Stat. **42** (5) (2013), 501 516.

- 20. H. Abbasi, G. Haghighat Doost, I. Sadeqi, Property (T) for C*-dynamical systems, Wavelets and Linear Algebra, 1 (2014) 51-62.
- 21. I. Sadeqi, A. Hassanzadeh, Bishop-Phelps Theorem for Normed Cones (in Persian), Mathematical Researches, (2018).
- 22 .I. Sadeqi, Hassan Ghazanfary Asll, Bayaz Daraby. Favard's inequality for seminormed fuzzy integral and semiconormed fuzzy integral, Mathematica Tome 58 (81), No 1-2 (2016).
- 23. I. Sadeqi, Ali Hassanzadeh, Differentiability and subdifferentiability on semilinear spaces, Bull. Iranian Math. Soc., Volume 44, Issue 4, pp 1045–1057 (2018)
- 24. Ali Hassanzadeh, Ildar Sadeqi and Asghar Ranjbari , A Domain-Theoretic Bishop-Phelps theorem, Fixed Point theory, (2017)
- 25. Ali Hassanzadeh, Ildar Sadeqi, A cone theoretic Krein-Milman theorem in semitopological cones, Sahand Communications in Mathematical Analysis, Volume 9, No 1, PP. 143-150 (2017)
- 26. Ali Hassanzadeh, Ildar Sadeqi, Extremal principles of convex sets in ordered topological cones (Submitted)
- 27. Ali Hassanzadeh, Ildar Sadeqi, Some result on extreme points in ordered topological cones, Romanian Journal of Mathematics and Computer science, v7, Issue 2, p.93-98, (2017)
- 28. Bayaz Daraby, Hassan Ghazanfary Asll, Ildar Sadeqi, General related inequalities to Carlson-type inequality for the Sugeno integral, Appl. Math. Comput. †305 (2017) 323-329.
- 29. Bayaz Daraby, Hassan Ghazanfary Asll, Ildar Sadeqi, Favard's inequality for pseudo-integral, Asian-Eur. J. Math. 0 18500 (2017).
- 30 Ildar Sadeqi, Hassan Ghazanfary Asll, Bayaz Daraby, Gauss type inequality for Sugeno integral, J. Adv. Math. Stud. 10 (2017) 167-173.
- 31. Bayaz Daraby, Hassan Ghazanfary Asll, Ildar Sadeqi, Gronwall's inequality for pseudo-integral, Fac. Matematica, Tom XXX (2017)1 67-74.
- 32. Ildar Sadeqi, Hassan Ghazanfary Asll, Bayaz Daraby, Favard's inequality for seminormed fuzzy integral and and semiconormed fuzzy integral, App. Math. Comput., 2017.
- 33. Ildar Sadeqi, S. Nadi, Normed and mixed partial second-order subdifferential in variational analysis and optimization, Positivity, 2017.
- 34. Ildar Sadeqi, S. Nadi, Vector optimization problems and generalized vector variational like inequalities, SCMA, 2018.
- 35. Ildar Sadeqi, Sima Hassankhali, Smulyan lemma and diff. of the support function, Analysis in theory and application, 2018.
- 36. Ildar Sadeqi, Sima Hassankhali, On polar cones and differentiability in reflexive Banach spaces, SCMA, 2018.
- 37. Ildar Sadeqi, A. Hassanzadeh, Bishop-Phelps theore on normed cones, Research on Mathematics, 2(2019)
- 38. Sima Hassankhali, Ildar Sadeqi, Some notes on diff. of support function, Bulletin of the Iranian Mathematical Society

volume 46, pages 1211-1222(2020)

- 39. F. Yaghob Azari, I. Sadeqi, The study of Felbin and BS fuzzy normed linear spaces, SCMA, 19(2022)
- 40. I. Sadeqi, R. Zohrabi, F. Azari, Critical point results and their applications, J App. and Eng, Math., V. 13, N. 4, pp 1551-1564(2023)

Presentations:

- 1. I. Sadeqi, Support sets and support functionals & their app. to C*-algebra, Progress in analysis, Berlin, 2001.
- 2. I. Sadeqi, Support point and its relation to the RNP, 33rd Iranian mathematics conference, Ferdowsi Univ/Mashhad/Iran, Aug 30-sep 02/2002.
- 3. I. Sadeqi, Differentiability of support convx function, 34rd Iranian mathematics conference, Shahrood University. of Technology, Aug 30-Sep 02/2003.
- 4. I. Sadeqi, Quasi-Hausdorff fuzzy topology, 3rd seminar on geometry and topplogy, Tabriz-Iran, 15-17 july 2004.
- 5. I. Sadeqi, Topological properties of support points, 3rd seminar on geometry and topplogy, Tabriz-Iran, 15-17 july 2004.
- 6. I. Sadeqi, Strongly exposed points for closed convex and bounded subsets of Lp, 35 th Annual Iranian mathematics, Ahvaz, Iran January 26-29,2005.
- 7. I. Sadeqi, A note on the Bishop-Phelps property, Banach algebras 2005, Bordeaux, france, July 3 13 2005.
- 8. I. Sadeqi, Compact strongly exposed Lp-operators, 21th Int. Conf. On opeartor theory, West Univ. of timisora and Inst. Of Math. Of the Romainan academy, June 29-july 4 -2006.
- 9. I. Sadeqi, M. Salehi, Fuzzy real numbers and their relation to the TVS, First joint Cong. On fuzzy and intelligent systems, Ferdowsi University of Mashhad, 29-31 Aug 2007.
- 10. I. Sadeqi, F. Solati kia, Fuzzy seminormed linear space, First joint Cong. On fuzzy and intelligent systems, Ferdowsi University of Mashhad, 29-31 Aug 2007.
- 11. I. Sadeqi, Fuzzy Banach algebra, 17th seminar of math. Analysis and its applications, Arak Univ. 3-6 sep. 2007.
- 12. I. Sadeqi, Application of BP-theorem in the app. Theory, Int. Conf on nonlinear analysis and opt. Isfahan University, 25-27 April 2007.
- 13. I. Sadeqi, Application of BP-theorem in the app. Theory, Int. Conf on nonlinear analysis and opt. Isfahan University, 25-27 April 2007.
- 14. I. Sadeqi, F. Solati kia, M. Salehi, An example of a FNLS which is not a normed space, 39th annual Iranian mathematical conf. Kerman University. 24-27 aug 2008.

- 15. I. Sadeqi, K. G. Alizadeh, Topological properties of the solution set of genralized vector Eq. problems, 39th annual Iranian mathematical conf, Kerman Univversity. 24-27 aug 2008.
- 16. I. Sadeqi, M. Salehi, Stability and fuzzy normed liear spaces, 39th annual Iranian mathematical conf, Kerman University. 24-27 aug 2008.
- 17. I. Sadeqi, M. Salehi, Compact operator and topological degree, 17th seminar of math. Analysis and its applications, Arak University, 23-25 april 2008.
- 18. I. Sadeqi, M. Salehi, Topological vector spaces and FNLS, 17th seminar of math. Analysis and its applications, Arak University, 23-25 april 2008.
- 19. I. Sadeqi, C*-dynamical system with property (T), Int. Conf. 2010: The 6th Dynamical systems and applications,
- 20. I. Sadeqi, generalized vector equilibrium problems on reflexive Banach space, 51th workshop and conference on variational analysis and applications, Erice-Sicily-2009.
- 21. I. Sadeqi, F. Y. Azari, M. Salehi, The space of all fuzzy bounded operators is BS-fuzzy normable, the 40th Annual Iranian mathematics conference, Sharif University of Technology, Tehran, Iran, 14-17 August 2009.
- 22. I. Sadeqi, F. Y. Azari, The space of gradual numbers, 10th Iranian conf. on fuzzy systems,
- 23. I. Sadeqi, Some results in fuzzy Banach algebra, 10th Iranian conf. on fuzzy systems,
- 24. I. Sadeqi, Menger Probablistic Normed Space and TV spaces, 10th Iranian conf. on fuzzy systems,
- 25. I. Sadeqi, K. Alizadeh, A note on strong generalized vector equilibrium problems, 40th annual Iranian mathematical conf., 2009.
- 26. I. Sadeqi, M. Salehi, S. Shoorcheh, The competitive study of F-hemicontinuity and B-pseudomonotonicity of mappings, the 20th Seminar on Mathematical analysis and Its Applications, University of Maragheh, Maragheh, Iran, 9–11 July 2012.
- 27. I. Sadeqi, M. Salehi, S. Shoorcheh, The solution set of variational inequality related to the B-psaudomonotone mappings, The 43th Iranian Mathematics Conference, University of Tabriz, Tabriz, Iran, 27-30 August 2012.
- 28. Sadeqi, I., Salehi, M., Stability of solutions on variational inequality problems, The 44th Iranian Mathematics Conference, , Ferdowsi University of Mashhad, Mashhad, Iran. 27-30 August 2013.
- 29. F. Moradlou, I. Sadeqi and S. Rezaee, Stability of Cuachy functional equation in fuzzy normed linear spaces, Sahand university of Tech. 19- Aug-2014.
- 30. I. Sadeqi, M. Salehi, Fuzzy normed linear spaces are not classical normable in general, Sahand university of Tech. 19- Aug-2014.
- 31. I. Sadeqi, A. Hassanzadeh, Bishop-Phelps type Theorem for Normed Cones, The 45th Annual Iranian Mathematics Conference, 26-29 August 2014, University of Semnan, Semnan, Iran, pp. 68-71.
- 32. I. Sadeqi, Sequential continuity of solution mapping for parametric variational inequalities, 6th German Polish conference on optimization, Wittenberg 2014.
- 33. I. Sadeqi, A. Hassanzadeh, A. Ranjbari, Some results on Bishop-Phelps type theorem for scones, The 21th Seminar on Mathematical analysis and Its Applications, 26-27 November 2014, Islamic Azad University, Hamedan, Iran, pp. 367-369.

- 34. H. Ghazanfary Asll, B. Daraby, I. Sadeqi, Generalization of Favard's inequality for seudointegral, The 47th Annual Iranian Mathematics Conference, 28-31 August 2016, Kharazmi University, Karaj, Iran.
- 35. Ildar Sadeqi, Some Calculus Rules in Variational Analysis, Winter Meeting; September 8-11, 2017-Waterloo University.
- 36. Sima Hassankhali, I. Sadeqi, On the Gateaux differentiability of the support function of compactly epilipschitzian sets, 22th seminar on mathematical analysis and applications, Bonablran 2017.
- 37. Sima Hassankhali, I. Sadeqi, On the solidness of the polar cones, Bonab-Iran 2017.
- 38. Sima Hassankhali, I. Sadeqi, Some notes on the differentiability of support functions, 4 th International Conference on Nonlinear Analysis and Optimization, Zanjan-Iran 2018.
- 39. I. Sadeqi, A note on variational analysis, 5 th Seminar on Nonlinear Analysis and Optimization 1-3 Julay, 2020, Tabriz, Iran.
- 40. S. Fatemi, I. Sadeqi, F. Moradlou, Minimizing a composite fuzzy function in terms of subgradient, 9th Iranian joint congress on fuzzy and intelligent systems, Kerman-Iran 2022.
- 41. S. Fatemi, I. Sadeqi, F. Moradlou, Calculus rules of fuzzy subdifferential on n-dimensional time scales, 25th seminar on analysis and its applications, Lorestan university, 2023.
- 42. S. Fatemi, I. Sadeqi, F. Moradlou, Monotonicity and convexity of the value function of a fuzzy minimization problem, The 7th seminar on fuctional analysis, Imam Khomeyni int. univ. of Qazvin, Iran 2023.
- 43. F. Azari, I.Sadeqi, The Comparative Study of Uncertainty Measures in Evidence Theory, Lorestan university, 2023.