رزومه کاری

مشخصات فردی:

نام و نام خانوادگی: رؤیا مکرونی
مرتبه علمی: استادیار
گروه آموزشی/ دانشکده: گروه ریاضی/ دانشکده علوم پایه

سوابق تحصیلی:

کارشناسی:

رشته: ریاضی محض   **محل تحصیل:** دانشگاه تهران

تاریخ اخذ مدرک: ۱۳۷۹-۱۳۸۳

کارشناسی ارشد:

رشته: ریاضی محض- هندسه و توپولوژی   **محل تحصیل:** دانشگاه صنعتی امیرکبیر

تاریخ اخذ مدرک: ۱۳۸۳-۱۳۸۵

دکتری:

رشته: ریاضی محض- هندسه (سیستم‌های دینامیکی)   **محل تحصیل:** دانشگاه شهید بهشتی

تاریخ اخذ مدرک: ۱۳۹۰-۱۳۹۴

فرصت مطالعاتی:

دانشگاه اوربینو در کشور ایتالیا تحت نظر پروفسور لورا گاردینی

از تاریخ ۱۳۹۳/۰۸/۱۴ الی ۱۳۹۴/۰۲/۱۱

پسادکتری:

ریاضی- هندسه (سیستم‌های دینامیکی)   **محل تحصیل:** دانشگاه صنعتی شریف

از تاریخ ۱۳۹۵/۱۰/۰۱ الی ۱۳۹۶/۱۰/۰۱

زمینه‌های تحقیقاتی مورد علاقه:

• سیستم‌های دینامیکی

• نظریه آشوب

شرکت در سمینارهای تخصصی:

1."Chaotic Dynamics of Lorenz-type systems", 3rd Conference on Dynamical Systems and Geometric Theories, January 27-28, 2022, Hakim Sabzevari, Sabzevar, Iran. (Talk)

2. "Bifurcation structure in one dimensional linear-hyperbolic maps", 52th Annual Iranian Mathematics Conference, August 30- September 02, 2021, Shahid Bahonar University of Kerman, Kerman, Iran. (Talk)

3."On One Dimensional Piecewise Smooth Maps: Mixing and Density of Orbits", 15th Seminar on Differential Equations and Dynamical Systems, March 6-8, 2021, University of Guilan, Rasht, Iran. (Talk)

4. "Flip Bifurcation in Piecewise Smooth Maps", 15th Seminar on Differential Equations and Dynamical Systems, March 6-8, 2021, University of Guilan, Rasht, Iran. (Poster)

5. "Chaos of Discontinuous maps", 51th Annual Iranian Mathematics Conference, February 15-20, 2021, University of Kashan, Kashan, Iran. (Talk)

6. "Chaotic Behaviour of Baker-like maps with one discontinuity point", 51th Annual Iranian Mathematics Conference, February 15-20, 2021, University of Kashan, Kashan, Iran.

7."Chaos in expanding Baker-like maps", 2nd Conference on Dynamical Systems and Geometric Theories, November 28-29, 2018, University of Sistan and Baluchestan, Zahedan, Iran. (Talk)

8."Piecewise Monotone Maps Chaotic in the Whole Interval", 11th Workshop in Progress in Difference Equations (PODE 2017), May 29-31, 2017, University of Urbino Carlo Bo, Urbino, Italy. (Talk in English)

9. "Bifurcation Structure (Smooth and Border Collision) in a Family of Discontinuous Linear-Power Maps", Proceeding of Conference on Advances in Nonsmooth Dynamics, Feb.1-5, 2016, Centre Ricerca Mathematica, Barcelona, Spain.

10. Smooth and nonsmooth bifurcations in an invertible map", 8th seminar on geometry and topology, Amirkabir University of Technology, Tehran, Iran, 2015. (Talk)

11. "Border collision and fold bifurcations in a family of linear-hyperbolic discontinuous maps", Proceeding of International Workshop on Nonlinear Maps and Applications (NOMA'15), Dublin, Irland, 2015.

12. "Bifurcation structure in a discontinuous piecewise smooth maps", 3rd Workshop in Dynamical Systems, School of Mathematics, IPM, Tehran, Iran, 2015. (Talk)

13. "Smooth and nonsmooth bifurcations in a chaotic map", 12th Seminar on Differential Equations and Dynamical Systems, University of Tabriz, Tabriz, Iran, 2015. (Talk)

14. "Divergence and bounded chaotic sets in a family of piecewise smooth maps", 12th Seminar on Differential Equations and Dynamical Systems, University of Tabriz, Tabriz, Iran, 2015. (Talk)

15. "One-dimensional Baker-like map with infinitely many branches", Proceeding of 12th Seminar on Differential Equations and Dynamical Systems, University of Tabriz, Tabriz, Iran, 2015.

16. "Influence of a p-root singularity on a piecewise smooth map", Proceeding of The 1.th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, 2014.

17. 7th Seminar on Geometry and Topology Mathematical Conference, Iran University of Science and Technology, Tehran, Iran, 2013.

18. Frontiers in Mathematical Sciences, 2nd Conference, Sharif University of Technology, Tehran, Iran, 2013.

مقالات علمی:

Working papers:

1- R. Makrooni & L. Gardini, Bifurcation structures in a family of one-dimensional linear-power discontinuous maps, Gecomplexity Discussion Paper N.7, ISSN: 2409-7497,
/http://econpapers.repec.org/paper/cstwpaper ,۲۰۱۵

2- R. Makrooni, N. Abbasi, M. Pourbarat & L. Gardini, Robust unbounded chaotic attractors in 1D discontinuous maps, WP-EMS, Working Papers Series in Economics, Mathematics and Statistics, N.7 ISSN 1974-4110 (on line edition), ISSN 1594-7645 (print edition): /http://econ.uniurb.it

3- L. Gardini, R. Makrooni & I. Sushko, Cascades of Alternating Smooth Bifurcations and Border Collision Bifurcations in a Family of Discontinuous Linear-Power Maps, Gecomplexity Discussion Paper No.3, ISSN: 2409-7497, /http://econpapers.repec.org/paper/cstwpaper, 2016

Papers:

1- R. Makrooni, N. Abbasi, M. Pourbarat & L. Gardini, Robust unbounded chaotic attractors in 1D discontinuous maps, Chaos, Soliton & Fractals 77 (2015), pp 310-318, Elsevier. SJR: Q2, Impact Factor: 1.455

2- R. Makrooni, L. Gardini & I. Sushko, Bifurcation structures in a family of 1D discontinuos linear-hyperbolic invertible maps, International Journal of Bifurcation and Chaos, Vol. 25, No. 13 (2015) 1530039 (21 pages), World Scientific Publishing Company, DOI: 10.1142/S0218127415300396. SJR: Q2, Impact Factor: 1.329

3- R. Makrooni, F. Khellat & L. Gardini, Border collision bifurcations in a family of one-dimensional discontinuous piecewise smooth maps: Unbounded chaotic sets, Journal of Difference Equations and Applications, DOI: 10.1080/10236198.2015.1045893. SJR: Q2, Impact Factor: 1.02

4- R. Makrooni, F. Khellat & L. Gardini, Border collision bifurcations in a family of one-dimensional discontinuous piecewise smooth maps: Divergence and bounded dynamics, Journal of Difference Equations and Applications, DOI: 10.1080/10236198.2015.1046855. SJR: Q2, Impact Factor: 1.02

5- L. Gardini, R. Makrooni, Border collision and smooth bifurcations in a family of 1D linear-power maps, Journal of physics: conference series 692 (2016) 012002, DOI:10.1088/1742-6596/692/1/012002.

6- L. Gardini, R. Makrooni & I. Sushko, Alternating Smooth and Nonsmooth Bifurcations in a Discontinuous Linear-Power Map, Conference paper in: Colombo A., Jeffrey M., Lázaro J., Olm J. (eds) Extended Abstracts Spring 2016 (Nonsmooth Dynamics), Trends in Mathematics, vol 8.(2017), pp 59-64, Birkhäuser, Cham, Springer International Publishing AG 2017, DOI: 10.1007/978-3-319-55642-0_11.

7- L. Gardini, R. Makrooni & I. Sushko, Cascades of Alternating Smooth bifurcations and Border Collision Bifurcations in a Family of Discontinuous Linear-Power Maps, Discrete and Continuous Dynamical Systems - Series B, Vol. 23, No. 2 (2018), pp. 701-729, DOI:10.3934/dcdsb.2018039.

8- L. Gardini, R. Makrooni, Necessary and sufficient conditions of full chaos for expanding Baker-like maps and their use in non-expanding Lorenz maps, Communication in Nonlinear Science and Numerical Simulation, No. 67 (2019), pp. 272-289, DOI:10.1016/j.cnsns.2018.06.018.

9- M. Pourbarat, N. Abbasi & R. Makrooni, Chaos in Smooth Piecewise Dynamical Systems With One Discontinuous Point, Journal of Advanced Mathematical Modeling, Vol. 9, No. 2 (1398), pp. 93-105.

10- R. Makrooni, Bifurcation analysis of a piecewise smooth map with two asymptotes, Armenian Journal of Mathematics, Vol. 14, No. 13 (2022), pp. 1-12, https://doi.org/10.52737/18291163-2022.14.13-1-12

11- M. Pourbarat, N. Abbasi, R. Makrooni & Mohammad Reza Molaei, Chaos in one dimensional piecewise smooth dynamical systems, Journal of Dynamical and Control Systems, No. 29(2023), pp. 1271–1285, https://doi.org/10.1007/s10883-022-09630-0

12- R. Makrooni, N. Abbasi, A note on non-autonomous discrete dynamical systems, Topology and its Applications, No. 358 (2024) 109124

ایمیل دانشگاهی :

r.makrooni@uok.ac.ir

شماره تلفن اداری:

۰۸۷-۳۳۶۲۷۷۲۱-۴۲۴۷

شماره اتاق:

۶۳۵