

15th Seminar on

Differential Equations and Dynamical Systems

6-8 March 2021 University of Guilan



ISC

Saturday 6 March 2021

مسئول نشست: آقای دکتر رحمانی دوست - آقای دکتر سیاری

مکان نشست: <https://rooydad.guilan.ac.ir/ch/differential-equation3>

| | Time | Lecturer | Title | |
|-------------------------|-------------|---|--|------------|
| Keynote talks | 9:30-10:30 | Dr. Molaei | Trajectory metrics and trajectory manifolds | |
| Topic | Time | Author(s) | Title | Paper Code |
| Dynamical System | 10:30-10:50 | Yamin Sayyari | A refined upper bound for entropy of stochastic process | 1023 |
| | 10:50-11:10 | Zahra Shabani Siahkalde | On \underline{d} -shadowing property of semigroup actions | 1062 |
| | 11:10-11:30 | Maryam Rabiee Farahani - Fateme Helen Ghane Ostadghassemi | Riddled basins in a parametric nonlinear system | 1046 |
| | 11:30-11:55 | Ali Barzanouni | Birkhoff Recurrent Point And Sensitive Semiflows | 1053 |
| | 11:55-12:20 | Behnaz Koocheck Shooshtari - Mohammadreza Molaei | GENERALIZED SYNCHRONIZATION OF A NON-AUTONOMOUS UNIFIED CHAOTIC SYSTEM | 1073 |

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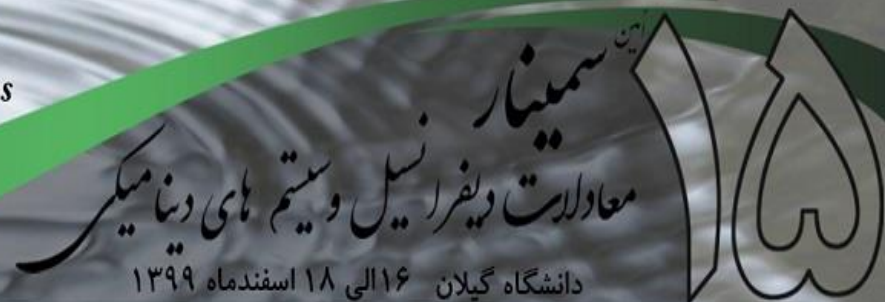


| | | | | |
|-------------------------|-------------|--|---|------|
| Dynamical System | 12:20-16:00 | Break | | |
| | 16:00-16:20 | Roya Makrooni - Mehdi Pourbarat - Neda Abbasi | ON ONE DIMENSIONAL PIECEWISE SMOOTH MAPS: MIXING AND DENSITY OF ORBITS | 1049 |
| | 16:20-16:45 | Monireh Akbari - Maryam Rabii | Investigation of chaos in a family of one parametric polynomials by symbolic dynamics | 1022 |
| | 16:45-17:10 | Fatemah Ayatollah Zadeh Shirazi - Arezoo Hosseini | ON ORBIT SPACE OF FORT TRANSFORMATION GROUPS | 1058 |
| | 17:10-17:35 | Fatemeh Ahangari | Investigation of the Dynamical Symmetries of a System of Third Order Ordinary Differential Equations via Newtonoid Vector Fields | 1060 |
| | 17:35-18:00 | Azam Ehsani - Javad Nazarian Sarkooh | ERGODICITY OF EXPANDING SEQUENTIAL DYNAMICAL SYSTEMS | 1056 |
| | 18:00-18:20 | Sanaz Lamei - Pouya Mehdipour | An N-to-1 Smale Horsehoe | 1028 |
| | 18:20-18:45 | Mansoorah Moosapoor | Recurrent weighted shifts and subspace-hypercyclicity | 1048 |

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مسئول نشست: آقای دکتر بابایی - آقای دکتر گازر

مکان نشست: <https://rooydad.guilan.ac.ir/ch/differential-equation2>

| | Time | Lecturer | Title | |
|-------------------------------|-------------|--|--|------------|
| Keynote talks | 9:30-10:30 | Dr. Razani | Laplace and p-Laplace problems | |
| Topic | Time | Author(s) | Title | Paper Code |
| Differential Equations | 10:30-10:50 | S. Reza Hejazi | REDUCED FORMS AND GROUP-INVARIANT SOLUTIONS OF CLARKE'S PDE | 1012 |
| | 10:50-11:10 | Fereshteh Behboudi - Abdolrahman Razani | MOUNTAIN PASS SOLUTION FOR A FRACTIONAL (p, q)- | 1004 |
| | 11:10-11:30 | Samira Heidari | INFINITELY MANY SOLUTIONS FOR (p ₁ (x); ... ; p _n (x))-LAPLACIAN SYSTEMS | 1009 |
| | 11:30-11:50 | Farzaneh Safari - Abdolrahman Razani | A DIRICHLET p-LAPLACIAN PROBLEM | 1005 |
| | 11:50-12:15 | Robabeh Sahandi | EXISTENCE OF SOLUTIONS FOR A SYSTEM OF MULTI-POINS BOUNDARY | 1080 |
| | 12:15-12:40 | Hajar Ansari - Mahmoud Hesaaraki | Global existence, asymptotic behavior and blow-up of solution for nonlinear | 1015 |

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| | | | | |
|-------------------------------|-------------|---|--|------|
| Differential Equations | 12:40-16:00 | Break | | |
| | 16:00-16:20 | Mohammad Javad Mohammad Taghizadeh - Mehran Aminian - Mehran Namjoo - Mahdi Karami | Stability analysis of a nonstandard finite difference scheme for fractional-order Cancer model | 1045 |
| | 16:20-16:45 | Mehrdad Anvari - Hamidreza Marasi - Hossein Kheiri | Advances in combination therapies of cancer | 1067 |
| | 16:45-17:10 | Rana Akbari | Algebraic stability of the numerical methods for ODEs | 1036 |
| | 17:10-17:35 | Mohammad Sharifi | CONSTRUCTION OF IMPLICIT- EXPLICIT SGLMS | 1034 |
| | 17:35-18:00 | Behnaz Talebi - Ali Abdi | Time- reversible numerical methods for solving Hamiltonian systems | 1033 |
| | 18:00-18:25 | Javad Damirchi - Seyed Mahdi Mahmoudi - Ali Janmohammadi | Fractional Order Mathematical Modeling of Covid 19 Epidemic | 1072 |
| | 18:25-18:50 | Azam Sadat Hashemi - Ghasem Barid Loghmani - Mohammad Heydari | An iterative compact finite difference method for the numerical solution | 1011 |

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Sunday 7 March 2021

مسئول نشست: آقای دکتر فخاری - خانم دکتر حسینی

مکان نشست: <https://rooydad.guilan.ac.ir/ch/differential-equation3>

| | Time | Lecturer | Title | |
|-------------------------|-------------|---|---|------------|
| Keynote talks | 9:00-10:00 | Dr. Talebi | پایداری آماری سیستم‌های دینامیکی | |
| Topic | Time | Author(s) | Title | Paper Code |
| Dynamical System | 10:00-10:25 | Reza Memarbashi - Seyed Mahdi Mahmoudi | Dynamic modeling of the COVID-19 with two transmission pathway | 1030 |
| | 10:25-10:50 | Mahmood Parsamanesh | A discrete-time stochastic epidemic model with vaccination for propagation of infectious diseases | 1076 |
| | 10:50-11:15 | Maryam Rabii - Monireh Akbari | On bimodal polynomials with a non-hyperbolic fixed point | 1018 |
| | 11:15-11:40 | Sanaz Lamei - Dawoud Ahmadi Dastjerdi | Ergodicity of geodesic flows on Hecke surface | 1041 |
| | 11:40-12:05 | Maysam Mosadeq | Ternary dynamical systems on Hilbert \mathbb{C}^* -modules | 1054 |
| | 12:05-12:30 | Fatemah Ayatollah Zadeh Shirazi - Seyed Mohammadreza Mortazavi | Equicontinuity and its weaker forms in Fort transformation semigroups | 1057 |

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پنجمین سمینار
معادلات دیفرانسیل و سیستم های دینامیک
دانشگاه گیلان ۱۶ الی ۱۸ اسفندماه ۱۳۹۹

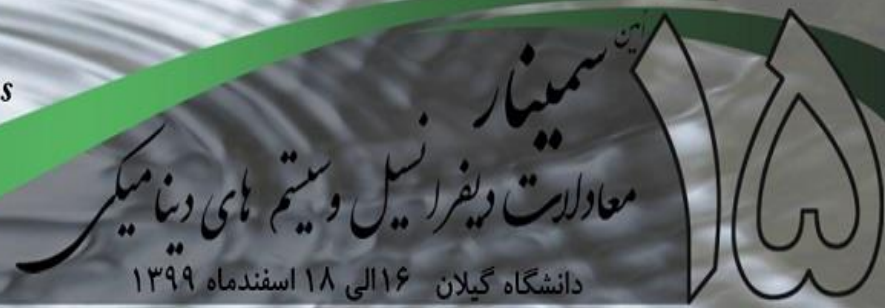


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|-------------------------|-------------|--|---|------|
| | 12:20-16:00 | Break | | |
| Dynamical System | 16:00-16:25 | Pouya Mehdipour - Neemias Martins | Encoding a 2-to-1 Baker map | 1027 |
| | 16:25-16:50 | Maysam Mosadeq | CONFLATING TWO KINDS OF DERIVATIONS TO CONSTRUCT THE GENERATOR OF A NEW DYNAMICAL SYSTEM | 1052 |
| | 16:50-17:20 | Marzieh Shams Yousefi | Fourier space on a C^* -dynamical system | 1075 |
| | 17:20-17:45 | Mohammad Bagher Asadi | THE RADIUS OF COMPARISON IN C^* -DYNAMICAL SYSTEMS | 1083 |
| | 17:45-18:00 | Molood Gholami - Reza Khoshsiar - Shiva Eshaghi | Stability analysis and chaos control of chaotic system | 1061 |

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Sunday 7 March 2021

مسئول نشست: آقای دکتر متین فر - آقای دکتر جعفری - آقای دکتر عبدی

مکان نشست: <https://rooydad.guilan.ac.ir/ch/differential-equation2>

| | Time | Lecturer | Title | |
|-------------------------------|-------------|--|---|------------|
| Keynote talks | 9:00-10:00 | Dr. Jodayree | Different aspects of asymptotic behavior of zeros of Mittag-Leffler functions | |
| Topic | Time | Author(s) | Title | Paper Code |
| Differential Equations | 10:00-10:25 | Behzad Nemati Saray - Mehrdad Lakestani | ON THE SPARSE MULTI-SCALE SOLUTION OF TIME-VARYING DELAY SYSTEMS | 1078 |
| | 10:25-10:45 | Roghayeh Katani | Nonlocal diffusion problem and numerical solution for two dimensional weakly singular Volterra integral equations | 1020 |
| | 10:45-11:00 | Maryam Haghshenas | Chebyshev polynomials and its application in solving integral equations | 1081 |
| | 11:00-11:15 | Hamid Erfanian Oraei Dehrokhi - Elham Dastranj | Invariant analysis of a special case of Fokker-Plank equation of the Heston model | 1014 |
| | 11:15-11:35 | Fatemeh Ahmadi Zeidabadi - Sayed Mohammad Hoseini | CONSERVATION LAWS FOR THE MATRIX NONLINEAR SCHRÖDINGER EQUATION | 1070 |
| | 11:35-12:00 | Mohammad Shirazian - Mohammad Reza Daneshfar | طراحی یک کنترل کننده ردیاب مقاوم برای سیستم لورنز | 1077 |

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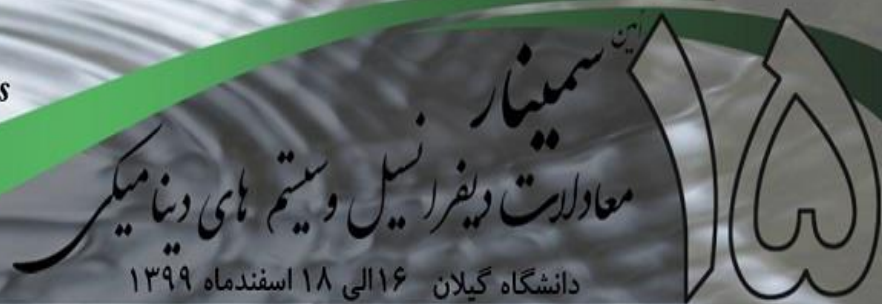


| | | | | |
|-------------------------------|-------------|---|---|------|
| | 12:40-16:00 | Break | | |
| Keynote talks | 16:00-17:00 | Dr. Dumitru Baleanu | SOME NEW TRENDS IN FRACTIONAL CALCULUS | |
| Differential Equations | 17:00-17:25 | Abdullah Almasoodi - Ali Abdi | Efficient methods for solving second kind Volterra integro-differential equations | 1032 |
| | 17:25-17:40 | S. Reza Hejazi - Hamid Erfanian Oraei Dehrokhi | Exact solutions of Boussinesq type equation via invariance properties | 1013 |
| | 17:40-18:05 | Najmeh Khajoei - Mohammad Reza Molaei | Application of the Darboux theory of integrability in inverse problems | 1016 |
| | 18:05-18:25 | M. Matinfar - Marzieh Dosti | SOLVING LINEAR OPTIMAL CONTROL PROBLEMS WITH QUARTIC B-SPLINES | 1025 |

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Monday 8 March 2021

مسئول نشست: آقای دکتر احمدی

مکان نشست: <https://rooydad.guilan.ac.ir/ch/differential-equation3>

| Topic | Time | Author(s) | Title | Paper Code |
|------------------|-------------|---|---|------------|
| Keynote talks | 9:00-10:00 | Dr. Ghane Ostadghassemi | Attractors and Attracting Invariant Graphs | |
| Dynamical System | 10:00-10:25 | Marzie Zaj | GEOMETRICAL STRUCTURE OF INVARIANT GRAPHS | 1068 |
| | 10:25-10:45 | Roozbeh Tahamtan - Davood Ahmadi Dastjerdi | Extended shift space | 1059 |
| | 10:45-11:10 | Farzaneh Pirfalak Maloomeh - Nader Koohestani - Seyyed Alireza Ahmadi | TOPOLOGICAL SHADOWING FOR INDUCED MAPS OF UNIFORM HYPERSPACES | 1063 |

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Monday 8 March 2021

مسئول نشست: آقای دکتر امینی خواه

مکان نشست: <https://rooydad.guilan.ac.ir/ch/differential-equation2>

| Topic | Time | Author(s) | Title | Paper Code |
|------------------------|---------------|---|--|------------|
| Differential Equations | 09:00 - 09:20 | Somaye Sheikhi - Mashalla Matinfar - Mohammad Arab Firoozjaee | Solving a class of variable-order fractional differential equations by using the Ritz approximation and Genocchi polynomials | 1040 |
| | 09:20 - 09:40 | Mahshid Foroughipour - Mohammad Shafi Dahaghin | INVESTIGATING THE TEMPERATURE OF FRACTIONAL HEAT EQUATION BY USING DOUBLE LAPLACE TRANSFORMS | 1026 |
| | 09:40 - 09:55 | Fateme Ghomanjani | Solving a quadratic Riccati differential equation | 1043 |
| | 09:55 - 10:10 | Fatemeh Ahmadi Zeidabadi - Sayed Mohammad Hoseini | THE AKNS HIERARCHY AND RECURSION OPERATOR | 1071 |
| | 10:10 - 10:35 | Najmeh Kouhestani | SUB-SUPER SOLUTIONS FOR A NON-LOCAL PROBLEM | 1065 |