

Croatian scientific bibliography (CROSBI)

Geometric, Ergodic and Topological Analysis of Low-dimensional Dynamical Systems (HRZZ-IP-2014-09-2285)

Srijeda 24. Svibanj 2017

Journal articles and review articles in CC journals (19)
Papers accepted for publication in the cc journals (6)
Scientific papers in other journals (5)
Conference reports (abstracts) in other journals (1)
Papers in the publishing process (10)

Abstracts in Book of abstracts (26)

Dissertations (1)

Other papers (1)

Journal articles and review articles in CC journals

1. Anušić, Ana; Bruin, Henk; Činč, Jernej.

Uncountably many planar embeddings of unimodal inverse limit spaces. // *Discrete and continuous dynamical systems.* **37** (2017) ; 2285-2300 (journal article).

2. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Strong nonuniform spectrum for arbitrary growth rates. // *Communications in contemporary mathematics.* **19** (2017) , 2; 1650008-1-1650008-25 (journal article).

3. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Nonuniform stability of arbitrary difference equations. // *Results in mathematics.* **71** (2017) , 1; 333-346 (journal article).

4. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

A version of a theorem of Pliss for nonuniform and noninvertible dichotomies. // *Proceedings. Section A. Mathematics (Edinburgh).* **147** (2017) , 2; 225-243 (journal article).

5. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Nonuniform exponential dichotomies and Fredholm operators for flows. // *Aequationes mathematicae.* **91** (2017) , 2; 301-316 (journal article).

6. Dragičević, Davor.

Lyapunov type equation for discrete exponential trichotomies. // *Journal of Nonlinear Sciences and Applications.* **10** (2017) , 4; 2001-2017 (journal article).

7. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Distance and tube zeta functions of fractals and arbitrary compact sets. // *Advances in mathematics.* **307** (2017) ; 1215-1267 (journal article).

8. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Complex dimensions of fractals and meromorphic extensions of fractal zeta functions. // *Journal of*

mathematical analysis and applications. **453** (2017) , 1; 458-484 (journal article).

9. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Tempered exponential dichotomies and Lyapunov exponents for perturbations. // *Communications in contemporary mathematics*. **18** (2016) , 5; 1550058 -1-1550058 -16 (journal article).

10. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Characterization of nonuniform exponential trichotomies for flows. // *Journal of mathematical analysis and applications*. **434** (2016) , 1; 376-400 (journal article).

11. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Fredholm operators and nonuniform exponential dichotomies. // *Chaos, solitons and fractals*. **85** (2016) ; 120-127 (journal article).

12. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Admissibility and nonuniformly hyperbolic sets. // *Electronic Journal of Qualitative Theory of Differential Equations*. (2016) , 10; 10-15 (journal article).

13. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Characterization of nonuniform contractions and expansions with growth rates. // *Mediterranean journal of mathematics*. **13** (2016) , 6; 4265-4279 (journal article).

14. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Tempered exponential dichotomies: admissibility and stability under perturbations. // *Dynamical systems*. **31** (2016) , 4; 525-545 (journal article).

15. Dragičević, Davor.

A version of a theorem of R. Datko for stability in average. // *Systems & control letters*. **96** (2016) ; 1-6 (journal article).

16. Dragičević, Davor; Preda, Ciprian.

Lyapunov theorems for exponential dichotomies in Hilbert spaces. // *International journal of mathematics*. **27** (2016) , 4; 1650033-1-1650033-13 (journal article).

17. Mardešić, Pavao; Resman, Maja; Rolin, Jean-Philippe; Županović, Vesna.

Normal forms and embeddings for power-log transseries. // *Advances in mathematics*. **303** (2016) ; 888-953 (journal article).

18. Korkut, Luka; Vlah, Domagoj; Županović, Vesna.

Geometrical properties of systems with spiral trajectories in \mathbb{R}^3 . // *Electronic journal of differential equations*. **2015** (2015) , 276; 1-19 (journal article).

19. Slijepčević, Siniša.

Stability of synchronization in dissipatively driven Frenkel-Kontorova models. // *Chaos*. **25** (2015) ; 083108-1-083108-9 (journal article).

Papers accepted for publication in the cc journals

1. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Nonuniform spectrum on the half line and perturbations. // *Results in mathematics*. (2017) (accepted for publication).

2. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Lyapunov type characterization of hyperbolic behavior. // *Journal of differential equations*. (2017) (accepted for publication).

3. Lapidus, Michel L.; Radunović, Goran; Žubrinić Darko.

Fractal tube formulas and a Minkowski measurability criterion for compact subsets of Euclidean spaces. // *Discrete and Continuous Dynamical Systems-Series S*. (2017) (accepted for publication).

4. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Zeta Functions and Complex Dimensions of Relative Fractal Drums: Theory, Examples and Applications. // *Dissertationes mathematicae*. (2017) (accepted for publication).

5. Dragičević, Davor.

A note on the theorem of Johnson, Palmer and Sell. // *Periodica mathematica Hungarica*. (2016) (accepted for publication).

6. Dragičević, Davor; Froyland, Gary.

Hölder continuity of Oseledets splittings for semi-invertible operator cocycles. // *Ergodic theory & dynamical systems*. (2016) (accepted for publication).

Scientific papers in other journals

1. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

One-sided dichotomies versus two-sided dichotomies: arbitrary growth rates. // *Quaestiones Mathematicae*. **40** (2017) , 3; 381-390 (journal article).

2. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Nonuniform hyperbolicity and one-sided admissibility. // *Rendiconti Lincei-Matematica e Applicazioni*. **27** (2016) , 2; 235-247 (journal article).

3. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Exponential dichotomies in average for flows and admissibility. // *Publicationes mathematicae*. **89** (2016) , 4; 415-439 (journal article).

4. Korkut, Luka; Vlah, Domagoj; Žubrinić, Darko; Županović, Vesna.

Wavy spirals and their fractal connection with chirps. // *Mathematical Communications*. **21** (2016) ; 251-271 (journal article).

5. Radunović, Goran.

Fractality and Lapidus zeta functions at infinity. // *Mathematical communications*. **21** (2016) ; 141-162 (journal article).

Conference reports (abstracts) in other journals

1. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Fractal tube formulas for relative fractal drums in arbitrary Euclidean spaces via Lapidus zeta functions // *Abstracts of Papers Presented to the American Mathematical Society* / Savage, Carla D. ; Benkart, Georgia ; Boe, Brian D. ; Lapidus, Michel L. ; Weintraub, Steven H., editor(s). Providence, RI, USA : American Mathematical Society, 2016. 128-129 (invited talk,international peer-review,abstract,scientific).

Papers in the publishing process

1. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Existence of conjugacies and stable manifolds via suspensions. // *Electronic journal of differential equations*. (2017) (accepted for publication).

2. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Nonuniform Exponential Dichotomies and Lyapunov Functions. // *Regular & chaotic dynamics*. (2017) (accepted for publication).

3. Lapidus L., Michel; Radunović Goran; Žubrinić Darko.

Minkowski measurability criteria for compact sets and relative fractal drums in Euclidean spaces. // *arXiv*. (2016).

4. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Fractal Zeta Functions and Fractal Drums: Higher-Dimensional Theory of Complex Dimensions. // *Springer Monographs in Mathematics*. (2016) (accepted for publication).

5. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Fractal Tube Formulas for Compact Sets and Relative Fractal Drums: Oscillations, Complex Dimensions and Fractality. // *Journal of Fractal Geometry*. (2016) (accepted for publication).

6. Slijepčević, Siniša.

Variational construction of positive entropy measures of Lagrangian systems I: small perturbations. // *arXiv*. (2016).

7. Anušić, Ana; Bruin, Henk; Činč, Jernej.

The Core Ingram Conjecture for non-recurrent critical points. // *ArXiv*. (2015).

8. Horvat Dmitrović, Lana; Županović, Vesna.

Characteristic box dimension of unit-time map near nilpotent singularity of planar vector field and applications. // *arXiv*. (2015).

9. Rabar, Braslav; Slijepčević, Siniša.

The transport speed and optimal work in pulsating Frenkel-Kontorova models. // *Physica D: Nonlinear Phenomena*. (2015).

10. Resman, Maja.

Box dimension of a hyperbolic saddle loop. // *Arxiv 1505.02404*. (2015).

Abstracts in Book of abstracts

1. Anušić, Ana; Bruin, Henk; Činč, Jernej.

On the Nadler-Quinn problem // .

(invited talk,abstract,scientific).

2. Dragičević, Davor.

Almost sure invariance principle for random piecewise expanding maps // .

(invited talk,abstract).

3. Dragičević, Davor.

Spectral characterization of nonuniform behaviour // .

(invited talk,abstract).

4. Dragičević, Davor.

Limit theorems for random Lasota-Yorke maps using the spectral method // .

(invited talk,abstract).

5. Dragičević, Davor.

Limit theorems for deterministic and random Lasota-Yorke maps using the spectral method // .

(invited talk,abstract).

6. A. Anušić, H. Bruin, J. Činč.

Planar embeddings of unimodal inverse limit spaces // .

(lecture,abstract,scientific).

7. Dragičević, Davor.

Hölder continuity of Oseledets splittings for semi-invertible operator cocycles // .

(invited talk,abstract,scientific).

8. Rolin, Jean-Philippe; Vlah, Domagoj; Županović, Vesna.

Fractal Geometry of Oscillatory Integrals and Singularities of Differentiable Maps // .

(lecture,international peer-review,abstract,scientific).

9. A. Anušić, H. Bruin, J. Činč.

The Core Ingram Conjecture in non-recurrent critical orbit case // .

(lecture,abstract,scientific).

10. Dragičević, Davor.

Hölder continuity of Oseledets splittings for semi- invertible operator cocycles // .

(lecture,abstract,scientific).

11. Rolin, Jean-Philippe; Vlah, Domagoj; Županović, Vesna.

Fractal Properties of Oscillatory Integrals and Singularities of Differentiable Maps // .

(lecture,international peer-review,abstract,scientific).

12. A. Anušić, H. Bruin, J. Činč.

Topological structure of unimodal inverse limit spaces // .

(invited talk,abstract,scientific).

13. A. Anušić, H. Bruin, J. Činč.

On the Core Ingram conjecture // .

(invited talk,abstract,scientific).

14. Slijepčević, Siniša.

Statistika u kliničkim ispitivanjima // Data Science Monetization 2016.

(invited talk,domestic peer-review,abstract,expert).

15. Anušić, Ana; Bruin, Henk; Činč, Jernej.

The Core Ingram Conjecture for non-recurrent critical orbit // .

(invited talk,international peer-review,abstract,scientific).

16. Slijepčević, Siniša.

Entropy of Lagrangian systems and invariant sets of extended gradient systems // Dynamics of evolution equations / Genevieve Raugel, editor(s).

Luminy, Francuska, 2016. 15-15 (invited talk,international peer-review,abstract,scientific).

17. Barreira, Luis; Dragičević, Davor; Valls, Claudia.

Spectral theory under nonuniform hyperbolicity // .

(invited talk,abstract,scientific).

18. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Tube formulas for relative fractal drums in Euclidean spaces via Lapidus zeta functions // .

(poster,international peer-review,abstract,scientific).

19. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Lapidus zeta functions of fractal sets and their residues // Fractals and Related Fields III : abstracts.

(lecture,international peer-review,abstract,scientific).

20. Pavao Mardešić.

Bounding zeros of pseudo-abelian integrals // Seminar Jiao Tong University, Shanghai, Kina.

(invited talk,international peer-review,abstract,scientific).

21. Rolin, Jean-Philippe; Vlah, Domagoj; Županović, Vesna.

Oscillatory Integrals and Fractal Dimension // .

(poster,international peer-review,abstract,scientific).

22. Slijepčević, Siniša.

Arnold's diffusion and formally gradient dynamics of the action functional // Equadiff 2015.

(lecture,international peer-review,abstract,scientific).

23. Resman, Maja.

Epsilon-neighborhoods of orbits and classifications of parabolic germs // .

(invited talk,international peer-review,abstract,scientific).

24. Slijepčević, Siniša.

Invariant measures of extended scalar dissipative equations // *Dynamical Systems, Ergodic Theory and Probability*.

(lecture,international peer-review,abstract,scientific).

25. Lana Horvat Dmitrović, Vesna Županović.

Characteristic box dimension of Poincare map of nilpotent focus // *EQUADIFF 2015*.

Lyon : Universite Claude Bernard 1, 2015. 232-232 (lecture,international peer-review,abstract,scientific).

26. Slijepčević, Siniša.

Dynamics of Extended Gradient Systems // *Dynamics of Extended Gradient Systems / Turaev, Dmitry and Zelig, Sergey, editor(s)*.

Nizhniy Novgorod, 2015. 18-18 (invited talk,international peer-review,abstract,scientific).

Dissertations

1. Rabar, Braslav.

Dynamics of nonautonomous Frenkel-Kontorova model / doctoral thesis.

Zagreb : Prirodoslovno matematički fakultet, 11.06. 2015., 80 pages. Mentor: Slijepčević, Siniša.

Other papers

1. Lapidus, Michel L.; Radunović, Goran; Žubrinić, Darko.

Fractal analysis of unbounded sets in Euclidean spaces: complex dimensions and Lapidus zeta functions, 2015.