ALI BARZANOUNI

Department of Mathematics and Computer Sciences, Hakim Sabzevari University, Iran.

EDUCATION

[**2012**] **PhD in Mathematics** from Ferdowsi University of Mashhad (FUM), Iran

- **Thesis:** C^1-*stability in dynamical systems with various shadowing property*
- **Advisor:** *Professor Bahman Honary*

[**2007**] **MS in Mathematics** Ferdowsi University of Mashhad (FUM), Iran.

[**2005**] **Bachelor in Mathematics** Ferdowsi University of Mashhad (FUM), Iran

RESEARCH

My research concentrates on the following topics:

- *Topological theory of discrete dynamical systems*
- *Symbolic Dynamic (shift space)*
- *Ergodic Theory*
- *Finite dynamical systems*

INTERNATIONAL COLLABORATORS:

1. Professor Juan A. Aledo
   University of Castilla-La Mancha Location Ciudad Real, Spain
   Departamento de Matemticas

2. Professor Ekta Shah
   The Maharaja Sayajirao University of Baroda Location Vadodara, India
   Department of Mathematics

3. Professor Jose C. Valverde
   University of Castilla-La Mancha Location Ciudad Real, Spain
   Departamento de Matemticas

4. Professor Xinxing Wu,
   Southwest Petroleum University Location Chengdu, China
   Institute of Nonlinear Dynamics

PUBLICATIONS LIST

[**2014**]

1. Barzanouni, Ali. Shadowing property on finitely generated group actions. J. Dyn. Syst. Geom. Theor. 12 (2014), no. 1, 69–79.
2. Barzanouni, Ali. Inverse limit spaces with various shadowing property. J. Math. 2014, Art. ID 169183, 4 pp.

[**2017**]

1. Barzanouni, Ali. Functional envelope of a non-autonomous discrete system. Nonauton. Dyn. Syst. 4 (2017), no. 1, 98–107

[**2018**]

1. Barzanouni, Ali. Finite expansive homeomorphisms. Topology Appl. 253 (2019), 95–112.

2. Barzanouni, Ali. Epsilon-Equicontinuous Points and Epsilon-Shadowable Points. Differ Equ Dyn Syst (2018).

[**2019**]

1. Barzanouni, Ali. Some properties of strong chain transitive maps. Commun. Korean Math. Soc. 34 (2019), no. 3, 951–965

2. Barzanouni, Ali; Shah, Ekta. Chain transitivity for maps on G-spaces. Mat. Vesnik 71 (2019), no. 4, 326–337.

3. Barzanouni, Ali; Sadat Divandar, Mahin; Shah, Ekta. On properties of expansive group actions. Acta Math. Vietnam. 44 (2019), no. 4, 923–934.

[**2020**]

1. Barzanouni, Ali. Weak shadowing for actions of some finitely generated groups on non-compact spaces and related measures. J. Dyn. Control Syst. 27 (2021), no. 3, 507–530.

2. Barzanouni, Ali. Sufficient conditions for expansive group action. Stoch. Dyn. 20 (2020), no. 3, 2050022, 21 pp

3. Aledo Juan, Barzanouni Ali, Malekbala Ghazaleh, Sharifan Leila, Valverde Jose C. *Counting Periodic Points in Parallel Graph Dynamical Systems*, Complexity, Volume 2020 (Pages: 1-9)

4. Aledo Juan, Barzanouni Ali, Malekbala Ghazal, Sharifan Leila, Valverde Jose C. *On the Periodic Structure of Parallel Dynamical Systems on Generalized Independent Boolean Functions*. Mathematics. 2020; 8(7):1088.

[**2021**]

1. Aledo, Juan A.; Barzanouni, Ali; Malekbala, Ghazaleh; Sharifan, Leila; Valverde, Jose C. Existence, coexistence and uniqueness of fixed points in parallel and sequential dynamical systems over directed graphs. Commun. Nonlinear Sci. Numer. Simul. 103 (2021),

2. Shabani, Zahra; Barzanouni, Ali; Wu, Xinxing. Recurrent sets and shadowing for finitely generated semigroup actions on metric spaces. Hacet. J. Math. Stat. 50 (2021), no. 4, 934–948.

3. Barzanouni Ali, Shah Ekta, On Expansive Homeomorphism of Uniform Spaces, to appear Acta Universitatis Sapientiae, Mathematica