



# Nahid Azimi

**Associate Professor**

**IASBS, Department of Physics**

## Publications

### Journals

---

- Noudehi, M Ghanbarzadeh and Kargaran, A and Azimi-Tafreshi, N and Jafari, GR, "Second-to first-order phase transition: Coevolutionary versus structural balance", *Physical Review E*, Vol. 106, NO. 4, 2022
- Fazli, Davood and Azimi-Tafreshi, Nahid, "Emergence of oscillations in fixed-energy sandpile models on complex networks", *Physical Review E*, Vol. 105, NO. 1, 2022
- Khanjaniapak, Mozhgan and Azimi-Tafreshi, Nahid and Arenas, Alex and Gomez-Gardeñes, Jesus, "Emergence of protective behaviour under different risk perceptions to disease spreading", *Philosophical Transactions of the Royal Society A*, Vol. 380, NO. 2227, 2022
- Khanjaniapak, Mozhgan and Azimi-Tafreshi, Nahid and Castellano, Claudio, "Competition between vaccination and disease spreading", *Physical Review E*, Vol. 101, NO. 6, 2020
- Azimi-Tafreshi, N and Osat, S and Dorogovtsev, SN, "Generalization of core percolation on complex networks", *Physical Review E*, Vol. 99, NO. 2, 2019
- Saeedian, Meghdad and Khalighi, Moein and Azimi-Tafreshi, Nahid and Jafari, GR and Ausloos, Marcel, "Memory effects on epidemic evolution: The susceptible-infected-recovered



- epidemic model", Physical Review E, Vol. 95, NO. 2, 2017
- Saeedian, M and Azimi-Tafreshi, N and Jafari, GR and Kertesz, J, "Epidemic spreading on evolving signed networks", Physical Review E, Vol. 95, NO. 2, 2017
  - Azimi-Tafreshi, N, "Cooperative epidemics on multiplex networks", Physical Review E, Vol. 93, NO. 4, 2016
  - Azimi-Tafreshi, Nahid and Dorogovtsev, Sergey N and Mendes, Jos{\e} FF, "Giant components in directed multiplex networks", Physical Review E, Vol. 90, NO. 5, 2014
  - Azimi-Tafreshi, N and Dorogovtsev, Sergey N and Mendes, JFF, "Organization of directed multiplex networks", arXiv preprint arXiv:1407.4623, Vol. 93, NO. 4, 2014
  - Azimi-Tafreshi, N and Gomez-Gardenes, J and Dorogovtsev, SN, "k- core percolation on multiplex networks", Physical Review E, Vol. 90, NO. 3, 2014
  - Azimi-Tafreshi, N and Dorogovtsev, Sergey N and Mendes, Jos{\e} FF, "Core organization of directed complex networks", Physical Review E, Vol. 87, NO. 3, 2013
  - Dashti-Naserabadi, H and Azimi-Tafreshi, N and Moghimi-Araghi, S, "Statistics of toppling wave boundaries in deterministic and stochastic sandpile models", Journal of Physics A: Mathematical and Theoretical, Vol. 45, NO. 4, 2011
  - Azimi-Tafreshi, N and Lotfi, E and Moghimi-Araghi, S, "Continuous Abelian Sandpile Model in two dimensional lattice", International Journal of Modern Physics B, Vol. 25, NO. 32, 2011
  - Azimi-Tafreshi, N and Dashti-Naserabadi, H and Moghimi-Araghi, S and Ruelle, Philippe, "The Abelian sandpile model on the honeycomb lattice", Journal of Statistical Mechanics: Theory and Experiment, Vol. 2010, NO. 2, 2010



- Azimi-Tafreshi, N and Moghimi-Araghi, S, "Patterned and disordered continuous Abelian sandpile model", Physical Review E, Vol. 80, NO. 4, 2009
- Azimi-Tafreshi, N and Dashti-Naserabadi, H and Moghimi-Araghi, S, "The spatial asymmetric two-dimensional continuous Abelian sandpile model", Journal of Physics A: Mathematical and Theoretical, Vol. 41, NO. 43, 2008
- Azimi-Tafreshi, N and Lotfi, E and Moghimi-Araghi, S, "Continuous Abelian Sandpile Model in Two Dimensional Lattice", arXiv preprint arXiv:0710.3292, Vol. 90, NO. 3, 2007