Bosiljka Tadic

List of Publications by Year
in descending order

99 papers	2,115 citations	218662 26 h-index	265191 42 g-index
104 all docs	104 docs citations	104 times ranked	1120 citing authors

#	Article	IF	Citations
1	Traffic on complex networks: Towards understanding global statistical properties from microscopic density fluctuations. Physical Review E, 2004, 69, 036102.	2.1	208
2	TRANSPORT ON COMPLEX NETWORKS: FLOW, JAMMING AND OPTIMIZATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2363-2385.	1.7	116
3	Dynamics of directed graphs: the world-wide Web. Physica A: Statistical Mechanics and Its Applications, 2001, 293, 273-284.	2.6	111
4	Information super-diffusion on structured networks. Physica A: Statistical Mechanics and Its Applications, 2004, 332, 566-584.	2.6	91
5	Spectral and dynamical properties in classes of sparse networks with mesoscopic inhomogeneities. Physical Review E, 2009, 80, 026123.	2.1	78
6	Driving Rate Effects in Avalanche-Mediated First-Order Phase Transitions. Physical Review Letters, 2004, 93, 195701.	7.8	75
7	Nonuniversal Scaling Behavior of Barkhausen Noise. Physical Review Letters, 1996, 77, 3843-3846.	7.8	64
8	Emergent Spatial Structures in Critical Sandpiles. Physical Review Letters, 1997, 79, 1519-1522.	7.8	56
9	Networks and emotion-driven user communities at popular blogs. European Physical Journal B, 2010, 77, 597-609.	1.5	54
10	PACKET TRANSPORT ON SCALE-FREE NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2002, 05, 445-456.	1.4	53
11	Co-Evolutionary Mechanisms of Emotional Bursts in Online Social Dynamics and Networks. Entropy, 2013, 15, 5084-5120.	2.2	46
12	Mechanisms of self-organized criticality in social processes of knowledge creation. Physical Review E, 2017, 96, 032307.	2.1	41
13	Search and topology aspects in transport on scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2005, 346, 183-190.	2.6	40
14	Charge Transport in Cellular Nanoparticle Networks:Â Meandering through Nanoscale Mazes. Nano Letters, 2007, 7, 855-860.	9.1	40
15	Quantitative analysis of bloggersâ€™ collective behavior powered by emotions. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P02005.	2.3	40
16	The dynamics of meaningful social interactions and the emergence of collective knowledge. Scientific Reports, 2015, 5, 12197.	3.3	37
17	Bloggers behavior and emergent communities in Blog space. European Physical Journal B, 2010, 73, 293-301.	1.5	35
18	Modeling collective charge transport in nanoparticle assemblies. Journal of Physics Condensed Matter, 2010, 22, 163201.	1.8	35

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19	Dynamic criticality in driven disordered systems: role of depinning and driving rate in Barkhausen noise. Physica A: Statistical Mechanics and Its Applications, 1999, 270, 125-134.	2.6	34
20	How the online social networks are used: dialogues-based structure of <tt>MySpace</tt>. Journal of the Royal Society Interface, 2013, 10, 20120819.	3.4	34
21	The critical Barkhausen avalanches in thin random-field ferromagnets with an open boundary. Scientific Reports, 2019, 9, 6340.	3.3	31
22	Hidden geometry of traffic jamming. Physical Review E, 2015, 91, 052817.	2.1	29
23	Hierarchical sequencing of online social graphs. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 582-595.	2.6	29
24	Hidden geometries in networks arising from cooperative self-assembly. Scientific Reports, 2018, 8, 1987.	3.3	29
25	The topology of higher-order complexes associated with brain hubs in human connectomes. Scientific Reports, 2020, 10, 17320.	3.3	28
26	Barkhausen avalanches in anisotropic ferromagnets with180Â°domain walls. Physical Review E, 2000, 61, 4610-4613.	2.1	27
27	Magnetization Reversal in Spin Patterns with Complex Geometry. Physical Review Letters, 2005, 94, 137204.	7.8	27
28	Dynamics of bloggersâ€™ communities: Bipartite networks from empirical data and agent-based modeling. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5264-5278.	2.6	27
29	Algebraic Topology of Multi-Brain Connectivity Networks Reveals Dissimilarity in Functional Patterns during Spoken Communications. PLoS ONE, 2016, 11, e0166787.	2.5	27
30	Disorder-induced critical behavior in driven diffusive systems. Physical Review E, 1998, 58, 168-173.	2.1	24
31	Self-Organised Critical Dynamics as a Key to Fundamental Features of Complexity in Physical, Biological, and Social Networks. Dynamics, 2021, 1, 181-197.	1.2	24
32	Preferential behaviour and scaling in diffusive dynamics on networks. New Journal of Physics, 2007, 9, 154-154.	2.9	22
33	Functional Geometry of Human Connectomes. Scientific Reports, 2019, 9, 12060.	3.3	21
34	Temporal fractal structures: origin of power laws in the world-wide Web. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 278-283.	2.6	20
35	Topology of Innovation Spaces in the Knowledge Networks Emerging through Questions-And-Answers. PLoS ONE, 2016, 11, e0154655.	2.5	19
36	Stability and chaos in coupled two-dimensional maps on gene regulatory network of bacterium <i>E. coli</i>. Chaos, 2010, 20, 033115.	2.5	17

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37	Critical Exponents at the Ferromagnetic Transition in Tetrakis(dimethylamino)ethylene-C60(TDAE-C60). Physical Review Letters, 2001, 87, 177205.	7.8	16
38	Transport processes on homogeneous planar graphs with scale-free loops. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 354-361.	2.6	16
39	Multifractal analysis of Barkhausen noise reveals the dynamic nature of criticality at hysteresis loop. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 063305.	2.3	16
40	Hysteresis and synchronization processes of Kuramoto oscillators on high-dimensional simplicial complexes with competing simplex-encoded couplings. Physical Review E, 2021, 104, 034206.	2.1	16
41	Modeling latent infection transmissions through biosocial stochastic dynamics. PLoS ONE, 2020, 15, e0241163.	2.5	16
42	Jamming and correlation patterns in traffic of information on sparse modular networks. European Physical Journal B, 2009, 71, 631-640.	1.5	15
43	Self-organised criticality and emergent hyperbolic networks: blueprint for complexity in social dynamics. European Journal of Physics, 2019, 40, 024002.	0.6	15
44	Relaxation dynamics of quantum spin glasses: Role of heat-bath coupling. Physical Review B, 1993, 47, 8801-8808.	3.2	14
45	Local polarization distribution in quadrupolar glasses. Physical Review B, 1997, 55, 816-823.	3.2	13
46	Modeling Traffic of Information Packets on Graphs with Complex Topology. Lecture Notes in Computer Science, 2003, , 136-143.	1.3	13
47	Structure and stability of online chat networks built on emotion-carrying links. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 538-543.	2.6	13
48	Spectral properties of hyperbolic nanonetworks with tunable aggregation of simplexes. Physical Review E, 2019, 100, 012309.	2.1	13
49	Microscopic dynamics modeling unravels the role of asymptomatic virus carriers in SARS-CoV-2 epidemics at the interplay between biological and social factors. Computers in Biology and Medicine, 2021, 133, 104422.	7.0	13
50	Defects in self-organized criticality: A directed coupled map lattice model. Physical Review E, 1996, 54, 3157-3164.	2.1	11
51	Exploring Complex Graphs by Random Walks. AIP Conference Proceedings, 2003, , .	0.4	11
52	Self-organization in trees and motifs of two-dimensional chaotic maps with time delay. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P03003.	2.3	10
53	Criticality in driven cellular automata with defects. Physica A: Statistical Mechanics and Its Applications, 1996, 224, 188-198.	2.6	9
54	Temporally disordered granular flow: A model of landslides. Physical Review E, 1998, 57, 4375-4381.	2.1	9

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55	Origin of Hyperbolicity in Brain-to-Brain Coordination Networks. Frontiers in Physics, 2018, 6, .	2.1	9
56	Search of Weighted Subgraphs on Complex Networks with Maximum Likelihood Methods. Lecture Notes in Computer Science, 2008, , 551-558.	1.3	9
57	The influence of architecture of nanoparticle networks on collective charge transport revealed by the fractal time series and topology of phase space manifolds. Journal of Coupled Systems and Multiscale Dynamics, 2016, 4, 30-42.	0.2	9
58	Local Information Based Algorithms for Packet Transport in Complex Networks. Lecture Notes in Computer Science, 2006, , 1024-1031.	1.3	8
59	Formation of colloidal assemblies in suspensions for Pb(Mg1/3Nb2/3)O3 synthesis: Monte Carlo simulation study. Soft Matter, 2011, 7, 5566.	2.7	8
60	Dynamical implications of sample shape for avalanches in 2-dimensional random-field Ising model with saw-tooth domain wall. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 330-341.	2.6	8
61	Correlations of triggering noise in driven magnetic clusters. Physica A: Statistical Mechanics and Its Applications, 2000, 282, 362-374.	2.6	7
62	Avalanches in complex spin networks. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 785-795.	2.6	7
63	Nanonetworks: The graph theory framework for modeling nanoscale systems. The Nanoscale Systems: Mathematical Modelingory and Applications, 2013, 2, 30-48.	0.3	7
64	Magnetisation Processes in Geometrically Frustrated Spin Networks with Self-Assembled Cliques. Entropy, 2020, 22, 336.	2.2	7
65	Correlation Patterns in Gene Expressions along the Cell Cycle of Yeast. Studies in Computational Intelligence, 2009, , 23-34.	0.9	7
66	Hidden geometry and dynamics of complex networks: Spin reversal in nanoassemblies with pairwise and triangle-based interactions [a]. Europhysics Letters, 2020, 132, 60008.	2.0	7
67	Scaling of avalanche queues in directed dissipative sandpiles. Physical Review E, 2000, 62, 3266-3275.	2.1	6
68	Mixing patterns and communities on bipartite graphs on web-based social interactions. , 2009, , .		6
69	Can human-like Bots control collective mood: agent-based simulations of online chats. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P10014.	2.3	6
70	Topology of Cell-Aggregated Planar Graphs. Lecture Notes in Computer Science, 2006, , 1098-1105.	1.3	6
71	Growth and structure of the World Wide Web: Towards realistic modeling. Computer Physics Communications, 2002, 147, 586-589.	7.5	5
72	Structure of Flow and Noise on Functional Scale-Free Networks. Progress of Theoretical Physics Supplement, 2006, 162, 112-120.	0.1	5

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73	Modelling conflicts with cluster dynamics in networks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5495-5502.	2.6	5
74	Large-scale influence of defect bonds in geometrically constrained self-assembly. Physical Review E, 2020, 102, 032307.	2.1	5
75	Scale-free energy dissipation and dynamic phase transition in stochastic sandpiles. Physical Review E, 1999, 59, 1452-1458.	2.1	4
76	Dynamical Patterns in Scalefree Trees of Coupled 2D Chaotic Maps. Lecture Notes in Computer Science, 2007, , 633-640.	1.3	4
77	Agent-Based Simulations of Emotional Dialogs in the Online Social Network MySpace. Understanding Complex Systems, 2017, , 207-229.	0.6	4
78	Tuneable hysteresis loop and multifractal oscillations of magnetisation in weakly disordered antiferromagneticâ€"ferromagnetic bilayers. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 142, 115319.	2.7	4
79	Collective charge fluctuations in single-electron processes on nanonetworks. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02015.	2.3	3
80	Directed Networks of Online Chats: Content-Based Linking and Social Structure. , 2012, , .		3
81	Traffic Noise and Maximum-Flow Spanning Trees on Growing and Static Networks. Lecture Notes in Computer Science, 2006, , 1016-1023.	1.3	3
82	Simulation of the Electron Tunneling Paths in Networks of Nano-particle Films. Lecture Notes in Computer Science, 2007, , 641-648.	1.3	3
83	Analysis of Worldwide Time-Series Data Reveals Some Universal Patterns of Evolution of the SARS-CoV-2 Pandemic. Frontiers in Physics, 0, 10, .	2.1	3
84	Self-organized criticality in disordered systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 277-285.	0.6	2
85	Chapter 12 From Microscopic Rules to Emergent Cooperativity in Large-Scale Patterns. Studies in Multidisciplinarity, 2008, 5, 259-279.	0.0	2
86	Congestion patterns of traffic studied on Nanjing city dual graph. , 2009, , .		2
87	Network theory approach for data evaluation in the dynamic force spectroscopy of biomolecular interactions. Europhysics Letters, 2010, 89, 68004.	2.0	2
88	Self-organized criticality in disordered systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 277-285.	0.6	2
89	Multiscale fractality in partial phase synchronisation on simplicial complexes around brain hubs. Chaos, Solitons and Fractals, 2022, 160, 112201.	5.1	2
90	Critical sound attenuation in random uniaxial ferroelectrics. Ferroelectrics, 1990, 104, 325-330.	0.6	0

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91	Power-law behavior and scaling of dielectric response in the dipolar glassRb1â˜x(ND4)xD2PO4. Physical Review B, 1998, 58, 8166-8169.	3.2	0
92	Domain wall dynamics and scaling of Barkhausen noise in ferroelectrics. Ferroelectrics, 2001, 259, 3-8.	0.6	0
93	Robust dynamical effects in traffic and chaotic maps on trees. Pramana - Journal of Physics, 2008, 70, 1099-1108.	1.8	0
94	Guided Search and Distribution of Information Flow on Complex Graphs. Lecture Notes in Computer Science, 2004, , 1086-1093.	1.3	0
95	Network Modeling of Complex Dynamic Systems. Lecture Notes in Computer Science, 2008, , 525-526.	1.3	0
96	Modeling latent infection transmissions through biosocial stochastic dynamics. , 2020, 15, e0241163.		0
97	Modeling latent infection transmissions through biosocial stochastic dynamics. , 2020, 15, e0241163.		0
98	Modeling latent infection transmissions through biosocial stochastic dynamics. , 2020, 15, e0241163.		0
99	Modeling latent infection transmissions through biosocial stochastic dynamics. , 2020, 15, e0241163.		0