

Yongxiang Xia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/608685/publications.pdf>

Version: 2024-02-01

52
papers

1,263
citations

471061

17
h-index

360668

35
g-index

52
all docs

52
docs citations

52
times ranked

1034
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Robustness of Interdependent Power Grids and Communication Networks: A Complex Network Perspective. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 115-119. | 2.2 | 194 |
| 2 | Cascading failure in Watts-Strogatz small-world networks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1281-1285. | 1.2 | 119 |
| 3 | Link Prediction in Complex Networks: A Mutual Information Perspective. PLoS ONE, 2014, 9, e107056. | 1.1 | 107 |
| 4 | Traffic congestion in interconnected complex networks. Physical Review E, 2014, 89, 062813. | 0.8 | 90 |
| 5 | Link Weight Prediction Using Supervised Learning Methods and Its Application to Yelp Layered Network. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1507-1518. | 4.0 | 89 |
| 6 | Optimal Robustness in Power Grids From a Network Science Perspective. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 126-130. | 2.2 | 64 |
| 7 | An information-theoretic model for link prediction in complex networks. Scientific Reports, 2015, 5, 13707. | 1.6 | 51 |
| 8 | Robustness assessment of cyber-physical systems with weak interdependency. Physica A: Statistical Mechanics and Its Applications, 2019, 522, 9-17. | 1.2 | 48 |
| 9 | Link Prediction in Weighted Networks: A Weighted Mutual Information Model. PLoS ONE, 2016, 11, e0148265. | 1.1 | 46 |
| 10 | Robust-yet-fragile nature of interdependent networks. Physical Review E, 2015, 91, 052809. | 0.8 | 45 |
| 11 | Sequential Recovery of Complex Networks Suffering From Cascading Failure Blackouts. IEEE Transactions on Network Science and Engineering, 2020, 7, 2997-3007. | 4.1 | 33 |
| 12 | Complex-Network-Inspired Design of Traffic Generation Patterns in Communication Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 590-594. | 2.2 | 32 |
| 13 | A Hybrid Cyber Attack Model for Cyber-Physical Power Systems. IEEE Access, 2020, 8, 114876-114883. | 2.6 | 28 |
| 14 | Optimal Resource Allocation in Complex Communication Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 706-710. | 2.2 | 23 |
| 15 | Quantifying Importance of Edges in Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1244-1248. | 2.2 | 20 |
| 16 | An asymmetric interdependent networks model for cyber-physical systems. Chaos, 2020, 30, 053135. | 1.0 | 20 |
| 17 | Analysis of Malware-Induced Cyber Attacks in Cyber-Physical Power Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3482-3486. | 2.2 | 19 |
| 18 | Dynamic Braess's Paradox in Complex Communication Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 172-176. | 2.2 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Weight prediction in complex networks based on neighbor set. Scientific Reports, 2016, 6, 38080. | 1.6 | 18 |
| 20 | Vulnerability Assessment of Power Grids Against Link-Based Attacks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2209-2213. | 2.2 | 18 |
| 21 | Abnormal phenomenon in robustness of complex networks with heterogeneous node functions. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 451-461. | 1.2 | 16 |
| 22 | Introduction to Focus Issue: Complex Network Approaches to Cyber-Physical Systems. Chaos, 2019, 29, 093123. | 1.0 | 16 |
| 23 | Cascading failures in spatial complex networks. Physica A: Statistical Mechanics and Its Applications, 2020, 559, 125071. | 1.2 | 16 |
| 24 | Optimal defense resource allocation in scale-free networks. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 2198-2204. | 1.2 | 15 |
| 25 | A Scale-Free Topology Construction Model for Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 764698. | 1.3 | 12 |
| 26 | UAV-Aided Networks for Emergency Communications in Areas with Unevenly Distributed Users. Journal of Communications and Information Networks, 2018, 3, 23-32. | 3.5 | 12 |
| 27 | Robustness of Complex Networks Considering Attack Cost. IEEE Access, 2020, 8, 172398-172404. | 2.6 | 11 |
| 28 | UAV-aided Networks for Emergency Communications in Areas with Unevenly Distributed Users. , 2018, , . | | 10 |
| 29 | Improving Robustness of Interdependent Networks by Reducing Key Unbalanced Dependency Links. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3187-3191. | 2.2 | 9 |
| 30 | An Electric Vehicle Battery-Swapping System: Concept, Architectures, and Implementations. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 175-194. | 2.6 | 9 |
| 31 | Survey of Safety Management Approaches to Unmanned Aerial Vehicles and Enabling Technologies. Journal of Communications and Information Networks, 2018, 3, 1-14. | 3.5 | 7 |
| 32 | Change of network load due to node removal. European Physical Journal B, 2014, 87, 1. | 0.6 | 6 |
| 33 | Robustness of Link Prediction Under Network Attacks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1472-1476. | 2.2 | 6 |
| 34 | Hybrid-radius spatial network model and its robustness analysis. Physica A: Statistical Mechanics and Its Applications, 2022, 591, 126800. | 1.2 | 5 |
| 35 | Robustness improvement for cyber physical system based on an optimization model of interdependent constraints. Chaos, 2021, 31, 033125. | 1.0 | 4 |
| 36 | Cyber Protection for Malware Attack Resistance in Cyber-Physical Power Systems. IEEE Systems Journal, 2022, 16, 5337-5345. | 2.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Optimal resource allocation under TCP Reno and Vegas in complex communication networks. , 2015, , . | | 3 |
| 38 | Improving robustness of power systems via optimal link switch-off. , 2016, , . | | 3 |
| 39 | Predicting the Evolution Process of Infrastructure Networks With an NSIPA Link Prediction Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1895-1899. | 2.2 | 3 |
| 40 | A Briefing Survey on Advances of Coupled Networks With Various Patterns. Frontiers in Physics, 2021, 9, . | 1.0 | 3 |
| 41 | Vulnerability analysis of cyber physical systems under the false alarm cyber attacks. Physica A: Statistical Mechanics and Its Applications, 2022, 599, 127416. | 1.2 | 3 |
| 42 | Efficient attack strategy to communication networks with partial degree information. , 2011, , . | | 2 |
| 43 | Cross Entropy Attack on Deep Graph Infomax. , 2020, , . | | 2 |
| 44 | Effect of assortativity on traffic performance in scale-free networks. , 2012, , . | | 1 |
| 45 | Oscillations in interconnected complex networks under intentional attack. International Journal of Modern Physics C, 2016, 27, 1650059. | 0.8 | 1 |
| 46 | Optimal resource allocation with node and link capacity constraints in complex networks. , 2017, , . | | 1 |
| 47 | Measuring Cohesion of Software Systems Using Weighted Directed Complex Networks. , 2018, , . | | 1 |
| 48 | Threshold for the Outbreak of Cascading Failures in Degree-Degree Uncorrelated Networks. Mathematical Problems in Engineering, 2015, 2015, 1-7. | 0.6 | 0 |
| 49 | Internet congestion control under node and link constraints. , 2017, , . | | 0 |
| 50 | Effect of capacity redundancy disparity on robustness of power grids. , 2017, , . | | 0 |
| 51 | Robustness of Power Grids Based on a Probability Model of Node Failures. , 2019, , . | | 0 |
| 52 | Optimal Coupling Pattern of Cyber-Physical Systems. , 2021, , . | | 0 |