Pei Dan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4843841/publications.pdf

Version: 2024-02-01

414414 471509 4,329 128 17 32 citations h-index g-index papers 128 128 128 1835 citing authors docs citations times ranked all docs

| # | Article | IF | CITATIONS |
|----------------|---|------|---|
| 1 | Robust Anomaly Detection for Multivariate Time Series through Stochastic Recurrent Neural Network., 2019,,. | | 488 |
| 2 | Unsupervised Anomaly Detection via Variational Auto-Encoder for Seasonal KPIs in Web Applications. , 2018, , . | | 431 |
| 3 | LogAnomaly: Unsupervised Detection of Sequential and Quantitative Anomalies in Unstructured Logs. , 2019, , . | | 238 |
| 4 | Opprentice., 2015,,. | | 164 |
| 5 | The (In)Completeness of the Observed Internet AS-level Structure. IEEE/ACM Transactions on Networking, 2010, 18, 109-122. | 3.8 | 150 |
| 6 | To Cache or Not to Cache: The 3G Case. IEEE Internet Computing, 2011, 15, 27-34. | 3.3 | 139 |
| 7 | An analysis of BGP multiple origin AS (MOAS) conflicts. , 2001, , . | | 105 |
| 8 | Where the sidewalk ends. , 2009, , . | | 98 |
| 9 | BGP-RCN: improving BGP convergence through root cause notification. Computer Networks, 2005, 48, 175-194. | 5.1 | 97 |
| 10 | Network-aware forward caching., 2009,,. | | 79 |
| 11 | | | |
| 1.1 | Personalized re-ranking for recommendation. , 2019, , . | | 75 |
| 12 | Personalized re-ranking for recommendation., 2019,,. Dynamic TCP Initial Windows and Congestion Control Schemes Through Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 1231-1247. | 14.0 | 75 |
| | Dynamic TCP Initial Windows and Congestion Control Schemes Through Reinforcement Learning. IEEE | 14.0 | |
| 12 | Dynamic TCP Initial Windows and Congestion Control Schemes Through Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 1231-1247. Unsupervised Detection of Microservice Trace Anomalies through Service-Level Deep Bayesian | 14.0 | 74 |
| 12 | Dynamic TCP Initial Windows and Congestion Control Schemes Through Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 1231-1247. Unsupervised Detection of Microservice Trace Anomalies through Service-Level Deep Bayesian Networks., 2020,,. | 14.0 | 74 65 |
| 12 13 14 | Dynamic TCP Initial Windows and Congestion Control Schemes Through Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 1231-1247. Unsupervised Detection of Microservice Trace Anomalies through Service-Level Deep Bayesian Networks., 2020,,. A light-weight distributed scheme for detecting ip prefix hijacks in real-time., 2007,,. | 14.0 | 746564 |
| 12 13 14 | Dynamic TCP Initial Windows and Congestion Control Schemes Through Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 1231-1247. Unsupervised Detection of Microservice Trace Anomalies through Service-Level Deep Bayesian Networks., 2020,,. A light-weight distributed scheme for detecting ip prefix hijacks in real-time., 2007,,. Characterizing and Improving WiFi Latency in Large-Scale Operational Networks., 2016,,. | 14.0 | 74656464 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A light-weight distributed scheme for detecting ip prefix hijacks in real-time. Computer Communication Review, 2007, 37, 277-288. | 1.8 | 52 |
| 20 | Improving BGP convergence through consistency assertions. , 2002, , . | | 50 |
| 21 | Quantifying path exploration in the internet. , 2006, , . | | 49 |
| 22 | HotSpot: Anomaly Localization for Additive KPIs With Multi-Dimensional Attributes. IEEE Access, 2018, 6, 10909-10923. | 4.2 | 47 |
| 23 | Robust and Rapid Clustering of KPIs for Large-Scale Anomaly Detection. , 2018, , . | | 47 |
| 24 | Robust and Rapid Adaption for Concept Drift in Software System Anomaly Detection., 2018,,. | | 47 |
| 25 | What happened in my network. , 2010, , . | | 46 |
| 26 | G-RCA: A Generic Root Cause Analysis Platform for Service Quality Management in Large IP Networks. IEEE/ACM Transactions on Networking, 2012, 20, 1734-1747. | 3.8 | 46 |
| 27 | Diagnosing root causes of intermittent slow queries in cloud databases. Proceedings of the VLDB Endowment, 2020, 13, 1176-1189. | 3.8 | 45 |
| 28 | Device-Agnostic Log Anomaly Classification with Partial Labels. , 2018, , . | | 42 |
| 29 | Robust and Unsupervised KPI Anomaly Detection Based on Conditional Variational Autoencoder., 2018, | | 41 |
| 30 | Quantifying Path Exploration in the Internet. IEEE/ACM Transactions on Networking, 2009, 17, 445-458. | 3.8 | 40 |
| 31 | WiFi can be the weakest link of round trip network latency in the wild. , 2016, , . | | 40 |
| 32 | Rapid and robust impact assessment of software changes in large internet-based services. , 2015, , . | | 39 |
| 33 | Why it takes so long to connect to a WiFi access point. , 2017, , . | | 39 |
| 34 | LogTransfer: Cross-System Log Anomaly Detection for Software Systems with Transfer Learning. , 2020, , . | | 38 |
| 35 | PreFix. , 2018, , . | | 36 |
| 36 | ZeroWall: Detecting Zero-Day Web Attacks through Encoder-Decoder Recurrent Neural Networks. , 2020, , . | | 35 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Quantifying the Extent of IPv6 Deployment. Lecture Notes in Computer Science, 2009, , 13-22. | 1.3 | 35 |
| 38 | Detection of invalid routing announcement in the Internet. , 0, , . | | 34 |
| 39 | An analysis of convergence delay in path vector routing protocols. Computer Networks, 2006, 50, 398-421. | 5.1 | 34 |
| 40 | Syslog processing for switch failure diagnosis and prediction in datacenter networks. , 2017, , . | | 33 |
| 41 | EDUM., 2016,,. | | 32 |
| 42 | Automatic and Generic Periodicity Adaptation for KPI Anomaly Detection. IEEE Transactions on Network and Service Management, 2019, 16, 1170-1183. | 4.9 | 31 |
| 43 | FUNNEL: Assessing Software Changes in Web-Based Services. IEEE Transactions on Services Computing, 2018, 11, 34-48. | 4.6 | 28 |
| 44 | A Semantic-aware Representation Framework for Online Log Analysis. , 2020, , . | | 28 |
| 45 | LogClass: Anomalous Log Identification and Classification With Partial Labels. IEEE Transactions on Network and Service Management, 2021, 18, 1870-1884. | 4.9 | 28 |
| 46 | Shedding light on the glue logic of the internet routing architecture. Computer Communication Review, 2008, 38, 39-50. | 1.8 | 27 |
| 47 | Rapid Deployment of Anomaly Detection Models for Large Number of Emerging KPI Streams. , 2018, , . | | 27 |
| 48 | Identifying bad software changes via multimodal anomaly detection for online service systems. , 2021, , . | | 27 |
| 49 | Threshold compression for 3G scalable monitoring. , 2012, , . | | 24 |
| 50 | FUSO: Fast Multi-Path Loss Recovery for Data Center Networks. IEEE/ACM Transactions on Networking, 2018, 26, 1376-1389. | 3.8 | 24 |
| 51 | Continuous delivery of personalized assessment and feedback in agile software engineering projects. , 2018, , . | | 24 |
| 52 | Real-time incident prediction for online service systems. , 2020, , . | | 24 |
| 53 | Generic and Robust Localization of Multi-dimensional Root Causes. , 2019, , . | | 22 |
| 54 | LogParse: Making Log Parsing Adaptive through Word Classification. , 2020, , . | | 22 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | FluxRank: A Widely-Deployable Framework to Automatically Localizing Root Cause Machines for Software Service Failure Mitigation. , $2019, \dots$ | | 21 |
| 56 | CoFlux., 2019,,. | | 20 |
| 57 | Label-Less: A Semi-Automatic Labelling Tool for KPI Anomalies. , 2019, , . | | 20 |
| 58 | Detecting Outlier Machine Instances Through Gaussian Mixture Variational Autoencoder With One Dimensional CNN. IEEE Transactions on Computers, 2022, 71, 892-905. | 3.4 | 20 |
| 59 | A framework for resilient internet routing protocols. IEEE Network, 2004, 18, 5-12. | 6.9 | 19 |
| 60 | How bad are the rogues' impact on enterprise 802.11 network performance?., 2015, , . | | 17 |
| 61 | Efficient and Robust Syslog Parsing for Network Devices in Datacenter Networks. IEEE Access, 2020, 8, 30245-30261. | 4.2 | 17 |
| 62 | Automatically and Adaptively Identifying Severe Alerts for Online Service Systems., 2020,,. | | 16 |
| 63 | Protecting BGP routes to top-level DNS servers. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 851-860. | 5.6 | 15 |
| 64 | Fetching Popular Data from the Nearest Replica in NDN. , 2016, , . | | 15 |
| 65 | Firewall Fingerprinting and Denial of Firewalling Attacks. IEEE Transactions on Information Forensics and Security, 2017, 12, 1699-1712. | 6.9 | 15 |
| 66 | Collaborative learning between cloud and end devices., 2019,,. | | 15 |
| 67 | Mining causality graph for automatic web-based service diagnosis. , 2016, , . | | 15 |
| 68 | Visual-Based Anomaly Detection for BGP Origin AS Change (OASC) Events. Lecture Notes in Computer Science, 2003, , 155-168. | 1.3 | 14 |
| 69 | FOCUS: Shedding light on the high search response time in the wild. , 2016, , . | | 14 |
| 70 | BGP convergence in virtual private networks. , 2006, , . | | 12 |
| 71 | G-RCA., 2010, , . | | 12 |
| 72 | Practical and White-Box Anomaly Detection through Unsupervised and Active Learning. , 2020, , . | | 12 |

| # | Article | IF | Citations |
|----|--|------|-----------|
| 73 | Scalable VPN routing via relaying. , 2008, , . | | 12 |
| 74 | Understanding and handling alert storm for online service systems. , 2020, , . | | 12 |
| 75 | TowerDefense: Deployment strategies for battling against IP prefix hijacking. , 2010, , . | | 11 |
| 76 | Understanding the Impact of AP Density on WiFi Performance Through Real-World Deployment. , 2016, , . | | 11 |
| 77 | Reducing Web Latency Through Dynamically Setting TCP Initial Window with Reinforcement Learning. , 2018, , . | | 11 |
| 78 | Efficient KPI Anomaly Detection Through Transfer Learning for Large-Scale Web Services. IEEE Journal on Selected Areas in Communications, 2022, 40, 2440-2455. | 14.0 | 11 |
| 79 | NDN Live Video Broadcasting over Wireless LAN. , 2015, , . | | 10 |
| 80 | Rewiring 2 Links Is Enough: Accelerating Failure Recovery in Production Data Center Networks. , 2015, , . | | 10 |
| 81 | MobiCamp., 2016,,. | | 10 |
| 82 | Your trajectory privacy can be breached even if you walk in groups. , 2016, , . | | 9 |
| 83 | Identifying Root-Cause Metrics for Incident Diagnosis in Online Service Systems. , 2021, , . | | 9 |
| 84 | Firewall fingerprinting., 2012,,. | | 8 |
| 85 | Quasi-asynchronous migration. Operating Systems Review (ACM), 1999, 33, 5-14. | 1.9 | 7 |
| 86 | $mathrm {F^{2}}\$ Tree: Rapid Failure Recovery for Routing in Production Data Center Networks. IEEE/ACM Transactions on Networking, 2017, 25, 1940-1953. | 3.8 | 7 |
| 87 | The DevOps Lab Platform for Managing Diversified Projects in Educating Agile Software Engineering. , 2018, , . | | 7 |
| 88 | FluxInfer: Automatic Diagnosis of Performance Anomaly for Online Database System., 2020,,. | | 7 |
| 89 | Design and implementation of a low-overhead file checkpointing approach. , 2000, , . | | 6 |
| 90 | A study on the routing convergence of Latin American networks. , 2003, , . | | 6 |

| # | Article | IF | Citations |
|-----|---|-----|-----------|
| 91 | A measurement study on BGP AS path looping (BAPL) behavior., 2014,,. | | 6 |
| 92 | Improving the freshness of NDN forwarding states. , 2016, , . | | 6 |
| 93 | Interest-suppression-based NDN live video broadcasting over wireless LAN. Frontiers of Computer Science, 2017, 11, 675-687. | 2.4 | 6 |
| 94 | TCP WISE: One initial congestion window is not enough., 2017,,. | | 6 |
| 95 | Walking Without Friends: Publishing Anonymized Trajectory Dataset Without Leaking Social Relationships. IEEE Transactions on Network and Service Management, 2019, 16, 1212-1225. | 4.9 | 6 |
| 96 | Where the Sidewalk Ends: Extending theInternet AS Graph Using Traceroutesfrom P2P Users. IEEE Transactions on Computers, 2014, 63, 1021-1036. | 3.4 | 5 |
| 97 | Analyzing the impact of buffer capacity on crosspoint-queued switch performance. Journal of Communications and Networks, 2016, 18, 523-530. | 2.6 | 5 |
| 98 | Measuring BGP AS path looping (BAPL) and private AS number leaking (PANL). Tsinghua Science and Technology, 2018, 23, 22-34. | 6.1 | 5 |
| 99 | The impact of multi-homing on network reliability and stability: a case study. , 0, , . | | 3 |
| 100 | Multi-AS cooperative incoming traffic engineering in a transit-edge separate internet. Computer Networks, 2014, 73, 112-127. | 5.1 | 3 |
| 101 | Unsupervised Clustering through Gaussian Mixture Variational AutoEncoder with Non-Reparameterized Variational Inference and Std Annealing. , 2020, , . | | 3 |
| 102 | Robust System Instance Clustering for Large-Scale Web Services. , 2022, , . | | 3 |
| 103 | Towards an efficient algorithmic framework for pricing cellular data service. , 2011, , . | | 2 |
| 104 | IP Reachability differences: Myths and realities. , 2011, , . | | 2 |
| 105 | CQRD: A switch-based approach to flow interference in Data Center Networks., 2014,,. | | 2 |
| 106 | Mining crowd mobility and WiFi hotspots on a densely-populated campus. , 2017, , . | | 2 |
| 107 | Latency-based WiFi congestion control in the air for dense WiFi networks. , 2017, , . | | 2 |
| 108 | How Much Are Your Neighbors Interfering with Your WiFi Delay?., 2017, , . | | 2 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | You can hide, but your periodic schedule can't., 2017,,. | | 2 |
| 110 | Causal Analysis of the Unsatisfying Experience in Realtime Mobile Multiplayer Games in the Wild. , 2019, , . | | 2 |
| 111 | VAEPP: Variational Autoencoder with a Pull-Back Prior. Lecture Notes in Computer Science, 2020, , 366-379. | 1.3 | 2 |
| 112 | AdCell: Ad Allocation in Cellular Networks. Lecture Notes in Computer Science, 2011, , 311-322. | 1.3 | 2 |
| 113 | PreFix. Performance Evaluation Review, 2019, 46, 64-66. | 0.6 | 2 |
| 114 | Scalable monitoring via threshold compression in a large operational 3G network. , 2011, , . | | 1 |
| 115 | NetSearch: Googling large-scale network management data. , 2014, , . | | 1 |
| 116 | MIFO: Multi-path Interdomain Forwarding. , 2015, , . | | 1 |
| 117 | Alleviating flow interference in data center networks through fine-grained switch queue management. Computer Networks, 2015, 91, 593-613. | 5.1 | 1 |
| 118 | The Frame Latency of Personalized Livestreaming Can Be Significantly Slowed Down by WiFi. , $2018, \ldots$ | | 1 |
| 119 | PreFix. Performance Evaluation Review, 2019, 46, 64-66. | 0.6 | 1 |
| 120 | Shallow VAEs with RealNVP Prior can Perform as Well as Deep Hierarchical VAEs. Communications in Computer and Information Science, 2020, , 650-659. | 0.5 | 1 |
| 121 | A Practical Machine Learning-Based Framework to Detect DNS Covert Communication in Enterprises. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 1-21. | 0.3 | 1 |
| 122 | Analyzing failures and attacks in Map & Damp; Encap protocols. , 2010, , . | | 0 |
| 123 | Application-aware latency monitoring for cloud tenants via CloudWatch+., 2014,,. | | 0 |
| 124 | Narrowing down the debugging space of slow search response time. , 2015, , . | | 0 |
| 125 | Learning thresholds for PV change detection from operators' labels. , 2015, , . | | 0 |
| 126 | M3: Practical and reliable multi-layer video multicast over multi-rate Wi-Fi network. , 2016, , . | | 0 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Preventing Wi-Fi Privacy Leakage: A User Behavioral Similarity Approach. , 2018, , . | | 0 |
| 128 | Designing Buffer Capacity of Crosspoint-Queued Switch. Lecture Notes in Computer Science, 2014, , 35-48. | 1.3 | 0 |