

Nick Mckeown

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

18,487
citations

218677

26
h-index

330143

37
g-index

69
all docs

69
docs citations

69
times ranked

7402
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Revitalizing the public internet by making it extensible. Computer Communication Review, 2021, 51, 18-24. | 1.8 | 20 |
| 2 | Updating the theory of buffer sizing. Performance Evaluation, 2021, 151, 102232. | 1.2 | 8 |
| 3 | Using deep programmability to put network owners in control. Computer Communication Review, 2020, 50, 82-88. | 1.8 | 32 |
| 4 | Frequency Stabilized Lasers for Coherent Fiber Interconnects in the Datacenter (Invited Talk). , 2019, , . | | 1 |
| 5 | The P4->NetFPGA Workflow for Line-Rate Packet Processing. , 2019, , . | | 65 |
| 6 | Sizing router buffers (redux). Computer Communication Review, 2019, 49, 69-74. | 1.8 | 23 |
| 7 | From ethane to SDN and beyond. Computer Communication Review, 2019, 49, 92-95. | 1.8 | 14 |
| 8 | Buffer sizing and Video QoE Measurements at Netflix. , 2019, , . | | 13 |
| 9 | Switches Know the Exact Amount of Congestion. , 2019, , . | | 8 |
| 10 | p4v. , 2018, , . | | 78 |
| 11 | AppSwitch. , 2017, , . | | 12 |
| 12 | Learning Networking by Reproducing Research Results. Computer Communication Review, 2017, 47, 19-26. | 1.8 | 39 |
| 13 | Packet Transactions. , 2016, , . | | 193 |
| 14 | Neutral Net Neutrality. , 2016, , . | | 11 |
| 15 | Programmable Packet Scheduling at Line Rate. , 2016, , . | | 146 |
| 16 | PISCES. , 2016, , . | | 110 |
| 17 | High Speed Networks Need Proactive Congestion Control. , 2015, , . | | 48 |
| 18 | BeHop. Mobile Computing and Communications Review, 2015, 18, 71-80. | 1.7 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | P4. Computer Communication Review, 2014, 44, 87-95. | 1.8 | 1,871 |
| 20 | Maturing of OpenFlow and Software-defined Networking through deployments. Computer Networks, 2014, 61, 151-175. | 5.1 | 129 |
| 21 | Design principles for packet parsers. , 2013, , . | | 63 |
| 22 | Forwarding metamorphosis. , 2013, , . | | 439 |
| 23 | Rethinking IP Core Networks. Journal of Optical Communications and Networking, 2013, 5, 1431. | 4.8 | 29 |
| 24 | pFabric. , 2013, , . | | 409 |
| 25 | Forwarding metamorphosis. Computer Communication Review, 2013, 43, 99-110. | 1.8 | 318 |
| 26 | pFabric. Computer Communication Review, 2013, 43, 435-446. | 1.8 | 248 |
| 27 | Deconstructing datacenter packet transport. , 2012, , . | | 52 |
| 28 | The controller placement problem. Computer Communication Review, 2012, 42, 473-478. | 1.8 | 205 |
| 29 | Outsourcing network functionality. , 2012, , . | | 60 |
| 30 | Reproducible network experiments using container-based emulation. , 2012, , . | | 354 |
| 31 | Confused, timid, and unstable. , 2012, , . | | 262 |
| 32 | Architecting for innovation. Computer Communication Review, 2011, 41, 24-36. | 1.8 | 67 |
| 33 | Optimizing a virtualized data center. Computer Communication Review, 2011, 41, 478-479. | 1.8 | 4 |
| 34 | Integrated Photonics for Low-Power Packet Networking. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 458-471. | 2.9 | 41 |
| 35 | MPLS-TE and MPLS VPNS with openflow. Computer Communication Review, 2011, 41, 452-453. | 1.8 | 25 |
| 36 | OpenPipes: Making distributed hardware systems easier. , 2010, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Carving research slices out of your production networks with OpenFlow. Computer Communication Review, 2010, 40, 129-130. | 1.8 | 153 |
| 38 | OpenRoads. Computer Communication Review, 2010, 40, 125-126. | 1.8 | 227 |
| 39 | Blueprint for introducing innovation into wireless mobile networks. , 2010, , . | | 132 |
| 40 | Delivering capacity for the mobile internet by stitching together networks. , 2010, , . | | 7 |
| 41 | Ripcord. Computer Communication Review, 2010, 40, 457-458. | 1.8 | 7 |
| 42 | A network in a laptop. , 2010, , . | | 1,357 |
| 43 | Optical Packet Buffers for Backbone Internet Routers. IEEE/ACM Transactions on Networking, 2010, 18, 1599-1609. | 3.8 | 43 |
| 44 | Unifying Packet and Circuit Switched Networks. , 2009, , . | | 41 |
| 45 | Rethinking Enterprise Network Control. IEEE/ACM Transactions on Networking, 2009, 17, 1270-1283. | 3.8 | 178 |
| 46 | The Stanford OpenRoads deployment. , 2009, , . | | 58 |
| 47 | OpenFlow. Computer Communication Review, 2008, 38, 69-74. | 1.8 | 6,934 |
| 48 | NOX. Computer Communication Review, 2008, 38, 105-110. | 1.8 | 1,154 |
| 49 | NetFPGAâ€”An Open Platform for Teaching How to Build Gigabit-Rate Network Switches and Routers. IEEE Transactions on Education, 2008, 51, 364-369. | 2.4 | 107 |
| 50 | Implementing an OpenFlow switch on the NetFPGA platform. , 2008, , . | | 171 |
| 51 | Obtaining High Throughput in Networks with Tiny Buffers. IEEE International Workshop on Quality of Service, 2008, , . | 0.0 | 12 |
| 52 | Experimental study of router buffer sizing. , 2008, , . | | 57 |
| 53 | Buffer sizing results for RCP congestion control under connection arrivals and departures. Computer Communication Review, 2008, 39, 5-15. | 1.8 | 9 |
| 54 | Ethane. Computer Communication Review, 2007, 37, 1-12. | 1.8 | 329 |

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|----|--|-----|-----------|
| 55 | Stability Analysis of Explicit Congestion Control Protocols. IEEE Communications Letters, 2007, 11, 823-825. | 4.1 | 45 |
| 56 | NetFPGA--An Open Platform for Gigabit-Rate Network Switching and Routing. , 2007, , . | | 222 |
| 57 | Prototyping Fast, Simple, Secure Switches for Etha. , 2007, , . | | 15 |
| 58 | Prototyping Fast, Simple, Secure Switches for Etha. , 2007, , . | | 1 |
| 59 | RCP-AC: Congestion Control to Make Flows Complete Quickly in Any Environment. , 2006, , . | | 46 |
| 60 | Update on buffer sizing in internet routers. Computer Communication Review, 2006, 36, 67-70. | 1.8 | 59 |
| 61 | Why flow-completion time is the right metric for congestion control. Computer Communication Review, 2006, 36, 59-62. | 1.8 | 227 |
| 62 | Processor Sharing Flows in the Internet. Lecture Notes in Computer Science, 2005, , 271-285. | 1.3 | 132 |
| 63 | Sizing router buffers. , 2004, , . | | 450 |
| 64 | Sizing router buffers. Computer Communication Review, 2004, 34, 281-292. | 1.8 | 169 |
| 65 | Scaling internet routers using optics. , 2003, , . | | 177 |
| 66 | Packet classification on multiple fields. Computer Communication Review, 1999, 29, 147-160. | 1.8 | 277 |
| 67 | A simulation study of IP switching. Computer Communication Review, 1997, 27, 15-24. | 1.8 | 16 |