# Douglas J Leith

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 217 papers | 5,753 citations | 147801 31 h-index | 110387 64 g-index |
| 219 all docs | 219 docs citations | 219 times ranked | 3675 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | <scp>OpenNym</scp> : Privacy preserving recommending via pseudonymous group authentication. Security and Privacy, 2022, 5, . | 2.7 | 0 |
| 2 | Selective Edge Computing for Mobile Analytics. IEEE Transactions on Network and Service Management, 2022, 19, 3090-3104. | 4.9 | 2 |
| 3 | Quick & plenty: Achieving low delay & high rate in 802.11ac edge networks. Computer Networks, 2021, 187, 107820. | 5.1 | 3 |
| 4 | Measurement-based evaluation of Google/Apple Exposure Notification API for proximity detection in a commuter bus. PLoS ONE, 2021, 16, e0250826. | 2.5 | 17 |
| 5 | Contact Tracing App Privacy: What Data Is Shared By Europeâ€™s GAEN Contact Tracing Apps. , 2021, , . | | 24 |
| 6 | AutoML for Video Analytics with Edge Computing. , 2021, , . | | 34 |
| 7 | Low-Delay Proportional Fair Rate Allocation For 802.11ac WLAN Downlink. , 2021, , . | | 0 |
| 8 | BOOST: Transport-Layer Multi-Connectivity Solution for Multi-Wan Routers. , 2021, , . | | 0 |
| 9 | Cluster-Based Bandits: Fast Cold-Start for Recommender System New Users. , 2021, , . | | 8 |
| 10 | Smart replication for seamless and efficient real time communication in underground railway train. , 2021, , . | | 0 |
| 11 | Low-delay high-rate operation of 802.11ac WLAN downlink: Nonlinear controller analysis & design. Computer Networks, 2021, 197, 108325. | 5.1 | 0 |
| 12 | Understanding MPTCP in Multi-WAN Routers: Measurements and System Design. , 2021, , . | | 1 |
| 13 | Web Browser Privacy: What Do Browsers Say When They Phone Home?. IEEE Access, 2021, 9, 41615-41627. | 4.2 | 11 |
| 14 | Mobile Handset Privacy: Measuring the Data iOS and Android Send to Apple and Google. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 231-251. | 0.3 | 9 |
| 15 | Modelling Downlink Aggregation in Paced WLANs. , 2021, , . | | 0 |
| 16 | Regulating Aggregation Level For Low Latency in 802.11ac. , 2020, , . | | 0 |
| 17 | Measurement-based evaluation of Google/Apple Exposure Notification API for proximity detection in a light-rail tram. PLoS ONE, 2020, 15, e0239943. | 2.5 | 64 |
| 18 | Dynamic Scheduling for IoT Analytics at the Edge. , 2020, , . | | 5 |

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| 19 | Improving IoT Analytics through Selective Edge Execution. , 2020, , . | | 2 |
| 20 | SOS: Stochastic Object-aware Scheduler for low delay communication over multiple wireless paths. , 2020, , . | | 0 |
| 21 | Coronavirus Contact Tracing App Privacy: What Data Is Shared by the Singapore OpenTrace App?. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 80-96. | 0.3 | 15 |
| 22 | Coronavirus contact tracing. Computer Communication Review, 2020, 50, 66-74. | 1.8 | 66 |
| 23 | Measurement-driven Analysis of an Edge-Assisted Object Recognition System. , 2020, , . | | 8 |
| 24 | Bayesian Online Learning for MEC Object Recognition Systems. , 2020, , . | | 4 |
| 25 | An Efficient Web Traffic Defence Against Timing-Analysis Attacks. IEEE Transactions on Information Forensics and Security, 2019, 14, 525-540. | 6.9 | 6 |
| 26 | Joint Scheduling and Coding for Low In-Order Delivery Delay Over Lossy Paths With Delayed Feedback. IEEE/ACM Transactions on Networking, 2019, 27, 1987-2000. | 3.8 | 12 |
| 27 | A Convex Optimization Approach to Discrete Optimal Control. IEEE Transactions on Automatic Control, 2019, 64, 35-50. | 5.7 | 10 |
| 28 | $mathcal{L}_2$ and $mathcal{L}_{infty}$ Stability Analysis of Heterogeneous Traffic With Application to Parameter Optimization for the Control of Automated Vehicles. IEEE Transactions on Control Systems Technology, 2019, 27, 934-949. | 5.2 | 54 |
| 29 | Multi-destination aggregation with binary symmetric broadcast channel based coding in 802.11 WLANs. Wireless Networks, 2019, 25, 2201-2216. | 3.0 | 0 |
| 30 | Plausible Deniability in Web Searchâ€"From Detection to Assessment. IEEE Transactions on Information Forensics and Security, 2018, 13, 874-887. | 6.9 | 3 |
| 31 | ORLA/OLAA: Orthogonal Coexistence of LAA and WiFi in Unlicensed Spectrum. IEEE/ACM Transactions on Networking, 2018, 26, 2665-2678. | 3.8 | 22 |
| 32 | FluidRAN: Optimized vRAN/MEC Orchestration. , 2018, , . | | 75 |
| 33 | Joint Optimization of Edge Computing Architectures and Radio Access Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 2433-2443. | 14.0 | 51 |
| 34 | Towards Resource-Efficient Wireless Edge Analytics for Mobile Augmented Reality Applications. , 2018, , . | | 4 |
| 35 | Optimization-Based Linear Network Coding for General Connections of Continuous Flows. IEEE/ACM Transactions on Networking, 2018, 26, 2033-2047. | 3.8 | 5 |
| 36 | Updating Neighbour Cell List via Crowdsourced User Reports: A Framework for Measuring Time Performance. Wireless Communications and Mobile Computing, 2018, 2018, 1-11. | 1.2 | 1 |

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| 37 | Low Delay Random Linear Coding and Scheduling Over Multiple Interfaces. IEEE Transactions on Mobile Computing, 2017, 16, 3100-3114. | 5.8 | 45 |
| 38 | BLC. ACM Transactions on Privacy and Security, 2017, 20, 1-25. | 3.0 | 5 |
| 39 | Extreme points of the local differential privacy polytope. Linear Algebra and Its Applications, 2017, 534, 78-96. | 0.9 | 7 |
| 40 | Recommending access points to individual mobile users via automatic group learning. , 2017, , . | | 1 |
| 41 | Fair Coexistence of Scheduled and Random Access Wireless Networks: Unlicensed LTE/WiFi. IEEE/ACM Transactions on Networking, 2017, 25, 3267-3281. | 3.8 | 59 |
| 42 | Design of FEC for Low Delay in 5G. IEEE Journal on Selected Areas in Communications, 2017, 35, 1783-1793. | 14.0 | 57 |
| 43 | Optimal Differentially Private Mechanisms for Randomised Response. IEEE Transactions on Information Forensics and Security, 2017, 12, 2726-2735. | 6.9 | 43 |
| 44 | Utility Fair Rate Allocation in LTE/802.11 Networks. IEEE/ACM Transactions on Networking, 2017, 25, 1076-1088. | 3.8 | 3 |
| 45 | A Linear Network Code Construction for General Integer Connections Based on the Constraint Satisfaction Problem. IEEE/ACM Transactions on Networking, 2017, 25, 3441-3454. | 3.8 | 4 |
| 46 | Time and place: robustness of a traffic analysis attack against web traffic. , 2017, , . | | 3 |
| 47 | Fast, Responsive Decentralized Graph Coloring. IEEE/ACM Transactions on Networking, 2017, 25, 3628-3640. | 3.8 | 11 |
| 48 | Asynchronous primal updates in dual subgradient methods via approximate lagrange multipliers. , 2017, , . | | 0 |
| 49 | Subgradient methods with perturbations in network problems. , 2016, , . | | 0 |
| 50 | srsLTE. , 2016, , . | | 232 |
| 51 | Stochastic subgradient methods with approximate Lagrange multipliers. , 2016, , . | | 2 |
| 52 | Unlicensed LTE/WiFi coexistence: Is LBT inherently fairer than CSAT?. , 2016, , . | | 68 |
| 53 | Using LTE in Unlicensed Bands: Potential Benefits and Coexistence Issues. , 2016, 54, 116-123. | | 37 |
| 54 | Proportional fair rate allocation for private shared networks. , 2016, , . | | 1 |

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| 55 | Optimising rateless codes with delayed feedback to minimise in-order delivery delay. , 2016, , . | | 1 |
| 56 | Experimental evaluation of multi-path schedulers for LTE/Wi-Fi devices. , 2016, , . | | 10 |
| 57 | Measurement-based modelling of LTE performance in Dublin city. , 2016, , . | | 16 |
| 58 | Maximizing LTE Capacity in Unlicensed Bands (LTE-U/LAA) While Fairly Coexisting With 802.11 WLANs. IEEE Communications Letters, 2016, 20, 1219-1222. | 4.1 | 41 |
| 59 | A Web Traffic Analysis Attack Using Only Timing Information. IEEE Transactions on Information Forensics and Security, 2016, 11, 1747-1759. | 6.9 | 52 |
| 60 | A first-hop traffic analysis attack against a femtocell. , 2016, , . | | 2 |
| 61 | Diagnosing channel issues using GTP protocol messages in LTE core networks. , 2016, , . | | 1 |
| 62 | Donâ€™t Let Google Know Iâ€™m Lonely. ACM Transactions on Privacy and Security, 2016, 19, 1-25. | 3.0 | 2 |
| 63 | Differentially private response mechanisms on categorical data. Discrete Applied Mathematics, 2016, 211, 86-98. | 0.9 | 2 |
| 64 | Max-Weight Revisited: Sequences of Nonconvex Optimizations Solving Convex Optimizations. IEEE/ACM Transactions on Networking, 2016, 24, 2676-2689. | 3.8 | 5 |
| 65 | Policing 802.11 MAC Misbehaviours. IEEE Transactions on Mobile Computing, 2016, 15, 1728-1742. | 5.8 | 7 |
| 66 | Thwarting Selfish Behavior in 802.11 WLANs. IEEE/ACM Transactions on Networking, 2016, 24, 492-505. | 3.8 | 4 |
| 67 | Rigorous and practical proportional-fair allocation for multi-rate Wi-Fi. Ad Hoc Networks, 2016, 36, 21-34. | 5.5 | 21 |
| 68 | A Linear Network Code Construction for General Integer Connections Based on the Constraint Satisfaction Problem. , 2015, , . | | 6 |
| 69 | Utility fair RAT selection in multi-homed LTE/802.11 networks. , 2015, , . | | 0 |
| 70 | Dual subgradient methods using approximate multipliers. , 2015, , . | | 2 |
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| 72 | Proportional Fair Coding for Wireless Mesh Networks. IEEE/ACM Transactions on Networking, 2015, 23, 269-281. | 3.8 | 4 |

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| 73 | Differential privacy in metric spaces: Numerical, categorical and functional data under the one roof. Information Sciences, 2015, 305, 256-268. | 6.9 | 18 |
| 74 | Fair Virtualization of 802.11 Networks. IEEE/ACM Transactions on Networking, 2015, 23, 148-160. | 3.8 | 11 |
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| 76 | Optimization-based linear network coding for general connections of continuous flows. , 2015, , . | | 5 |
| 77 | Coexistence of WiFi and LTE in unlicensed bands: A proportional fair allocation scheme. , 2015, , . | | 109 |
| 78 | A coded generalization of selective repeat ARQ. , 2015, , . | | 36 |
| 79 | Utility Fair Optimization of Antenna Tilt Angles in LTE Networks. IEEE/ACM Transactions on Networking, 2015, 23, 175-185. | 3.8 | 34 |
| 80 | Energy-aware configuration of small cell networks. , 2014, , . | | 4 |
| 81 | On the relationship between queues and multipliers. , 2014, , . | | 5 |
| 82 | Low delay random linear coding over a stream. , 2014, , . | | 27 |
| 83 | Proportional Fair MU-MIMO in 802.11 WLANs. IEEE Wireless Communications Letters, 2014, 3, 221-224. | 5.0 | 12 |
| 84 | Congestion control for coded transport layers. , 2014, , . | | 15 |
| 85 | A Linear Network Code Construction for General Integer Connections Based on the Constraint Satisfaction Problem. , 2014, , . | | 0 |
| 86 | Tilt angle adaptation in LTE networks with advanced interference mitigation. , 2014, , . | | 0 |
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| 89 | Learning-Based Constraint Satisfaction With Sensing Restrictions. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 811-820. | 10.8 | 18 |
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| 96 | Proportional Fair Coding for 802.11 WLANs. IEEE Wireless Communications Letters, 2012, 1, 468-471. | 5.0 | 5 |
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| 98 | Non-parametric maximum likelihood estimation of pulsed interference on wireless links. , 2012, , . | | 0 |
| 99 | A measurement-based model of energy consumption in femtocells. , 2012, , . | | 20 |
| 100 | Max-Min Fairness in 802.11 Mesh Networks. IEEE/ACM Transactions on Networking, 2012, 20, 756-769. | 3.8 | 30 |
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| 106 | Incentivising Fairness and Policing Nodes in WiFi. IEEE Communications Letters, 2011, 15, 500-502. | 4.1 | 3 |
| 107 | Proportional Fairness in 802.11 Wireless LANs. IEEE Communications Letters, 2011, 15, 807-809. | 4.1 | 28 |
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| 110 | Utility optimal coding for packet transmission over wireless networks â€" Part II: Networks of packet erasure channels. , 2011, , . | | 1 |
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| 132 | Achieving end-to-end fairness in 802.11e based wireless multi-hop mesh networks. , 2008, , . | | 2 |
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| 141 | MAC Layer Channel Quality Measurement in 802.11. IEEE Communications Letters, 2007, 11, 143-145. | 4.1 | 55 |
| 142 | On the Dynamics of TCP's Higher Moments. IEEE Communications Letters, 2007, 11, 210-212. | 4.1 | 3 |
| 143 | Experimental assessment of 802.11 MAC layer channel estimators. IEEE Communications Letters, 2007, 11, 961-963. | 4.1 | 11 |
| 144 | A non-invasive method for link upgrade planning using coarse-grained measurements. IEEE Communications Letters, 2007, 11, 1037-1039. | 4.1 | 0 |

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| 145 | Experimental Evaluation of TCP Protocols for High-Speed Networks. IEEE/ACM Transactions on Networking, 2007, 15, 1109-1122. | 3.8 | 168 |
| 146 | Understanding 802.11e Voice Behaviour via Testbed Measurements and Modeling. , 2007, , . | | 9 |
| 147 | On Queue Provisioning, Network Efficiency and the Transmission Control Protocol. IEEE/ACM Transactions on Networking, 2007, 15, 866-877. | 3.8 | 11 |
| 148 | Random Scaling of Quasi-Newton BFGS Method to Improve the O(N<sup>2</sup>)-operation Approximation of Covariance-matrix Inverse in Gaussian Process. , 2007, , . | | 0 |
| 149 | A disturbance response decoupling controller for emulating vertical dynamics of vehicles. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , . | 0.0 | 2 |
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| 151 | Modelling TCP congestion control dynamics in drop-tail environments. Automatica, 2007, 43, 441-449. | 5.0 | 90 |
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| 154 | A positive systems model of TCP-like congestion control: asymptotic results. IEEE/ACM Transactions on Networking, 2006, 14, 616-629. | 3.8 | 394 |
| 155 | On buffer sizing for voice in 802.11 WLANs. IEEE Communications Letters, 2006, 10, 701-703. | 4.1 | 28 |
| 156 | Modeling 802.11 mesh networks. IEEE Communications Letters, 2006, 10, 635-637. | 4.1 | 15 |
| 157 | Stochastic Equilibria of AIMD Communication Networks. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 703-723. | 1.4 | 20 |
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| 159 | Convergence of Distributed Learning Algorithms for Optimal Wireless Channel Allocation. , 2006, , . | | 25 |
| 160 | Sizing Internet Router Buffers, Active Queue Management, and the Lur'e Problem. , 2006, , . | | 12 |
| 161 | GAUSSIAN REGRESSION BASED ON MODELS WITH TWO STOCHASTIC PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 142-147. | 0.4 | 2 |
| 162 | Analysis and design of AIMD congestion control algorithms in communication networks. Automatica, 2005, 41, 725-730. | 5.0 | 78 |

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| 163 | Control of Yaw Rate and Sideslip in 4-Wheel Steering Cars with Actuator Constraints. Lecture Notes in Computer Science, 2005, , 201-222. | 1.3 | 13 |
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| 165 | TCP fairness in 802.11e WLANs. IEEE Communications Letters, 2005, 9, 964-966. | 4.1 | 86 |
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| 174 | A WIND TURBINE BENCHMARK FOR HYBRID SYSTEM ANALYSIS & DESIGN. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 121-126. | 0.4 | 0 |
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| 181 | Gain-Scheduled Control: Relaxing Slow Variation Requirements by Velocity-Based Design. Journal of Guidance, Control, and Dynamics, 2000, 23, 988-1000. | 2.8 | 18 |
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| 200 | Equivalence of gain-scheduling and input-output linearisation for a class of commonly occurring plants. , 0, , . | | 3 |
| 201 | On formulating nonlinear dynamics in LPV form. , 0, , . | | 17 |
| 202 | Using Gaussian processes to synthesise voiced speech with natural pitch variations. , 0, , . | | 0 |
| 203 | Divide & conquer identification using Gaussian process priors. , 0, , . | | 7 |
| 204 | Necessary & sufficient conditions for the minimal state-space realisation of nonlinear systems from input-output information. , 0, , . | | 2 |
| 205 | TCP Fairness in 802.11e WLANs. , 0, , . | | 16 |
| 206 | Time-series Gaussian Process Regression Based on Toeplitz Computation of O(N>sup<2>/sup<) Operations and O(N)-level Storage. , 0, , . | | 51 |
| 207 | Modelling 802.11 Wireless Links. , 0, , . | | 3 |
| 208 | Modelling TCP dynamics in wireless networks. , 0, , . | | 9 |
| 209 | On Improving Voice Capacity in 802.11 Infrastructure Networks. , 0, , . | | 23 |
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| 212 | A Self-Managed Distributed Channel Selection Algorithm for WLANs. , 0, , . | | 70 |
| 213 | Improving Fairness in Multi-Hop Mesh Networks Using 802.11e. , 0, , . | | 9 |
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