# Luiz F M Vieira

List of Publications by Year
in descending order



| 87 | 2,419 | 567281 15 | 315739 38 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 87 | 87 | 87 | 1703 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A fixâ€andâ€optimize heuristic for the minmax regret shortest path arborescence problem under interval uncertainty. International Transactions in Operational Research, 2023, 30, 1120-1143. | 2.7 | 3 |
| 2 | UW-SEEDEX: A Pseudorandom-Based MAC Protocol for Underwater Acoustic Networks. IEEE Transactions on Mobile Computing, 2022, 21, 3402-3413. | 5.8 | 9 |
| 3 | Intra and inter-flow link aggregation in SDN. Telecommunication Systems, 2022, 79, 95-107. | 2.5 | 5 |
| 4 | A dynamic network coding MAC protocol for power line communication. Telecommunication Systems, 2021, 77, 359-375. | 2.5 | 2 |
| 5 | A cooperative protocol for pervasive underwater acoustic networks. Wireless Networks, 2021, 27, 1941-1963. | 3.0 | 4 |
| 6 | Dual Radio Networks: Are Two Disjoint Paths Enough?. IEEE Internet of Things Magazine, 2021, 4, 67-71. | 2.6 | 3 |
| 7 | OpenFlow data planes performance evaluation. Performance Evaluation, 2021, 147, 102194. | 1.2 | 12 |
| 8 | Fast Packet Processing with eBPF and XDP. ACM Computing Surveys, 2021, 53, 1-36. | 23.0 | 89 |
| 9 | A Proposal of a Dynamic Routing Multicast Protocol for Visible Light Communication Networks. , 2021, , . | | 0 |
| 10 | Automatic MAC protocol selection in wireless networks based on reinforcement learning. Computer Communications, 2020, 149, 312-323. | 5.1 | 11 |
| 11 | SEGMETRIK: Protocol and metrics for advertisement performance tracking in VANETs. Vehicular Communications, 2020, 22, 100212. | 4.0 | 2 |
| 12 | Cellular automata-based byte error correction in QCA. Nano Communication Networks, 2020, 23, 100278. | 2.9 | 8 |
| 13 | A Continuous Restricted Boltzmann Machine and Logistic Regression Framework for Circuit Classification. , 2020, , . | | 2 |
| 14 | Optimal Transmission Range and Charging Time for Qi-Compliant Systems. IEEE Transactions on Power Electronics, 2020, 35, 12765-12772. | 7.9 | 4 |
| 15 | Grayâ€code adder with parity generator â€“ a novel quantumâ€dot cellular automata implementation. IET Circuits, Devices and Systems, 2020, 14, 243-250. | 1.4 | 4 |
| 16 | BloomTime: space-efficient stateful tracking of time-dependent network performance metrics. Telecommunication Systems, 2020, 74, 201-223. | 2.5 | 1 |
| 17 | CAPTAIN: A data collection algorithm for underwater optical-acoustic sensor networks. Computer Networks, 2020, 171, 107145. | 5.1 | 12 |
| 18 | Underwater Sensor Networks for Smart Disaster Management. IEEE Consumer Electronics Magazine, 2020, 9, 107-114. | 2.3 | 18 |

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| 19 | Underwater Wireless Sensor Networks. ACM Computing Surveys, 2019, 51, 1-36. | 23.0 | 110 |
| 20 | DYRP-VLC: A dynamic routing protocol for Wireless Ad-Hoc Visible Light Communication Networks. Ad Hoc Networks, 2019, 94, 101941. | 5.5 | 11 |
| 21 | FWB: Funneling Wider Bandwidth algorithm for high performance data collection in Wireless Sensor Networks. Computer Communications, 2019, 148, 136-151. | 5.1 | 6 |
| 22 | Water ping: ICMP for the internet of underwater things. Computer Networks, 2019, 152, 54-63. | 5.1 | 15 |
| 23 | SOAN: Selfâ€organizing aerial networks. Internet Technology Letters, 2019, 2, e104. | 1.9 | 0 |
| 24 | 3DVS: Node scheduling in underwater sensor networks using 3D voronoi diagrams. Computer Networks, 2019, 159, 73-83. | 5.1 | 6 |
| 25 | Visible Light Communication: Concepts, Applications and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 3204-3237. | 39.4 | 317 |
| 26 | DCTP-A and DCTP-I. , 2019, , . | | 1 |
| 27 | The internet of light: Impact of colors in LED-to-LED visible light communication systems. Internet Technology Letters, 2019, 2, e78. | 1.9 | 8 |
| 28 | A Joint Anypath Routing and Duty-Cycling Model for Sustainable Underwater Sensor Networks. IEEE Transactions on Sustainable Computing, 2019, 4, 314-325. | 3.1 | 15 |
| 29 | A MILP-based VND for the min-max regret Shortest Path Tree Problem with interval costs. Electronic Notes in Discrete Mathematics, 2018, 66, 39-46. | 0.4 | 1 |
| 30 | Autonomous Wireless Lake Monitoring. Computing in Science and Engineering, 2018, 20, 66-75. | 1.2 | 14 |
| 31 | Performance of Greedy Forwarding in Geographic Routing for the Internet of Drones. Internet Technology Letters, 2018, 1, e47. | 1.9 | 5 |
| 32 | Matrix: Multihop Address allocation and dynamic any-To-any Routing for 6LoWPAN. Computer Networks, 2018, 140, 28-40. | 5.1 | 8 |
| 33 | COPPER: Increasing Underwater Sensor Network Performance Through Nodes Cooperation. , 2018, , . | | 1 |
| 34 | Enriching Traffic Information with a Spatiotemporal Model based on Social Media. , 2018, , . | | 11 |
| 35 | Mobile Matrix: Routing under mobility in IoT, IoMT, and Social IoT. Ad Hoc Networks, 2018, 78, 84-98. | 5.5 | 24 |
| 36 | Comparison of data center traffic division policies using SDN. , 2018, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | FS-MAC: A flexible MAC platform for wireless networks. , 2018, , . | | 2 |
| 38 | CGR: Centrality-based green routing for Low-power and Lossy Networks. Computer Networks, 2017, 129, 117-128. | 5.1 | 7 |
| 39 | EnOR: Energy balancing routing protocol for underwater sensor networks. , 2017, , . | | 37 |
| 40 | Performance modeling and analysis of void-handling methodologies in underwater wireless sensor networks. Computer Networks, 2017, 126, 1-14. | 5.1 | 30 |
| 41 | CodeDrip: Improving data dissemination for wireless sensor networks with network coding. Ad Hoc Networks, 2017, 54, 42-52. | 5.5 | 18 |
| 42 | Network Coding for 5G Network and D2D Communication. , 2017, , . | | 8 |
| 43 | Modeling, Analysis and Simulation of Wireless Power Transfer. , 2017, , . | | 4 |
| 44 | CodePLC: A Network Coding MAC Protocol for Power Line Communication. , 2016, , . | | 3 |
| 45 | FlushMF: A Transport Protocol Using Multiple Frequencies for Wireless Sensor Network. , 2016, , . | | 3 |
| 46 | Modeling the sleep interval effects in duty-cycled underwater sensor networks. , 2016, , . | | 13 |
| 47 | A Scenario Based Heuristic for the Robust Shortest Path Tree Problem**This work was partially supported by CNPq, CAPES, and FAPEMIG.. IFAC-PapersOnLine, 2016, 49, 443-448. | 0.9 | 9 |
| 48 | Wireless scheduling with multiple data rates: From physical interference to disk graphs. Computer Networks, 2016, 106, 64-76. | 5.1 | 4 |
| 49 | Link probability, node degree and coverage in three-dimensional networks. Ad Hoc Networks, 2016, 37, 153-159. | 5.5 | 13 |
| 50 | Survey on the design of underwater sensor nodes. Design Automation for Embedded Systems, 2016, 20, 171-190. | 1.0 | 8 |
| 51 | Design guidelines for opportunistic routing in underwater networks. , 2016, 54, 40-48. | | 83 |
| 52 | Geographic and Opportunistic Routing for Underwater Sensor Networks. IEEE Transactions on Computers, 2016, 65, 548-561. | 3.4 | 264 |
| 53 | TCAM/CAM-QCA: (Ternary) Content Addressable Memory using Quantum-dot Cellular Automata. Microelectronics Journal, 2015, 46, 563-571. | 2.0 | 25 |
| 54 | Context transmission in personal IoT through an extension of the EPC Tag Data Standard. , 2015, , . | | 1 |

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|---|---|---|---|
| 55 | Programmable Networksâ€"From Software-Defined Radio to Software-Defined Networking. IEEE Communications Surveys and Tutorials, 2015, 17, 1102-1125. | 39.4 | 91 |
| 56 | A novel void node recovery paradigm for long-term underwater sensor networks. Ad Hoc Networks, 2015, 34, 144-156. | 5.5 | 55 |
| 57 | Robust Serial Nanocommunication With QCA. IEEE Nanotechnology Magazine, 2015, 14, 464-472. | 2.0 | 42 |
| 58 | eXtend collection tree protocol. , 2015, , . | | 9 |
| 59 | Modeling and Analysis of Opportunistic Routing in Low Duty-Cycle Underwater Sensor Networks. , 2015, , . | | 22 |
| 60 | Transmission power control-based opportunistic routing for wireless sensor networks. , 2014, , . | | 21 |
| 61 | Network management through graphs in Software Defined Networks. , 2014, , . | | 10 |
| 62 | GEDAR: Geographic and opportunistic routing protocol with Depth Adjustment for mobile underwater sensor networks. , 2014, , . | | 86 |
| 63 | CodeDrip: Data Dissemination Protocol with Network Coding for Wireless Sensor Networks. Lecture Notes in Computer Science, 2014, , 34-49. | 1.3 | 15 |
| 64 | SewerSnort: A drifting sensor for in situ Wastewater Collection System gas monitoring. Ad Hoc Networks, 2013, 11, 1456-1471. | 5.5 | 13 |
| 65 | A genetic algorithm for the minimum cost localization problem in wireless sensor networks. , 2013, , . | | 14 |
| 66 | Fundamental limits on end-to-end throughput of network coding in multi-rate and multicast wireless networks. Computer Networks, 2013, 57, 3267-3275. | 5.1 | 23 |
| 67 | NanoRouter: A Quantum-dot Cellular Automata Design. IEEE Journal on Selected Areas in Communications, 2013, 31, 825-834. | 14.0 | 49 |
| 68 | Data-rate maximization in wireless communication networks. , 2013, , . | | 0 |
| 69 | DCR: Depth-Controlled Routing protocol for underwater sensor networks. , 2013, , . | | 46 |
| 70 | Routing IPv6 over wireless networks with low-memory devices. , 2013, , . | | 1 |
| 71 | HydroNode. , 2012, , . | | 5 |
| 72 | Wireless multi-rate scheduling: From physical interference to disk graphs. , 2012, , . | | 2 |

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|---|---|---|---|
| 73 | Performance and trade-offs of opportunistic routing in underwater networks. , 2012, , . | | 37 |
| 74 | Mobile Robot Localization in Indoor Environments Using Multiple Wireless Technologies. , 2012, , . | | 9 |
| 75 | HydroNode: A low cost, energy efficient, multi purpose node for underwater sensor networks. , 2012, , . | | 12 |
| 76 | Selection of formal verification heuristics for parallel execution. International Journal on Software Tools for Technology Transfer, 2012, 14, 95-108. | 1.9 | 0 |
| 77 | 3D MANETs: Link Probability, Node Degree, Network Coverage and applications. , 2011, , . | | 10 |
| 78 | Phero-trail: a bio-inspired location service for mobile underwater sensor networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 553-563. | 14.0 | 61 |
| 79 | Pressure Routing for Underwater Sensor Networks. , 2010, , . | | 157 |
| 80 | AUV-Aided Localization for Underwater Sensor Networks. , 2007, , . | | 114 |
| 81 | Performance of Network-Coding in Multi-Rate Wireless Environments for Multicast Applications. , 2007, , . | | 16 |
| 82 | AUV-Aided Localization for Underwater Sensor Networks. , 2007, , . | | 54 |
| 83 | Localization with Dive'N'Rise (DNR) beacons for underwater acoustic sensor networks. , 2007, , . | | 120 |
| 84 | Scheduling nodes in wireless sensor networks: a Voronoi approach. , 2003, , . | | 49 |
| 85 | Performance evaluation of AODV over CSMA and TSCH. Internet Technology Letters, 0, , e276. | 1.9 | 1 |
| 86 | Routing and Mobility Management in the Internet of Things. , 0, , . | | 0 |
| 87 | On Braess's Paradox and Routing Algorithms. Internet Technology Letters, 0, , e334. | 1.9 | 0 |