# Zhi-Quan Luo

List of Publications by Year
in descending order

| 152 papers | 18,716 citations | 19657<br>61 h-index | 11607<br>135 g-index |
|---|---|---|---|
| 155 all docs | 155 docs citations | 155 times ranked | 8283 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Interference-Aware NFV-Enabled Multicast Service in Resource-Constrained Wireless Mesh Networks. IEEE Transactions on Network and Service Management, 2022, 19, 424-436. | 4.9 | 4 |
| 2 | Trade-Off Between Efficiency and Complexity in Multi-Stage Embedding of Multicast VNF Service Chains. IEEE Communications Letters, 2022, 26, 429-433. | 4.1 | 3 |
| 3 | Data-Driven Adaptive Network Slicing for Multi-Tenant Networks. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 113-128. | 10.8 | 4 |
| 4 | Resource Reservation in Backhaul and Radio Access Network With Uncertain User Demands. IEEE Transactions on Vehicular Technology, 2022, 71, 10878-10893. | 6.3 | 0 |
| 5 | Decentralized Non-Convex Learning With Linearly Coupled Constraints: Algorithm Designs and Application to Vertical Learning Problem. IEEE Transactions on Signal Processing, 2022, 70, 3312-3327. | 5.3 | 4 |
| 6 | Transfer Learning and Meta Learning-Based Fast Downlink Beamforming Adaptation. IEEE Transactions on Wireless Communications, 2021, 20, 1742-1755. | 9.2 | 45 |
| 7 | Optimal Network Slicing for Service-Oriented Networks With Flexible Routing and Guaranteed E2E Latency. IEEE Transactions on Network and Service Management, 2021, 18, 4337-4352. | 4.9 | 15 |
| 8 | Distributed Stochastic Consensus Optimization With Momentum for Nonconvex Nonsmooth Problems. IEEE Transactions on Signal Processing, 2021, 69, 4486-4501. | 5.3 | 12 |
| 9 | Embedding Multicast Service Function Chains in NFV-Enabled Networks. IEEE Communications Letters, 2021, 25, 1264-1268. | 4.1 | 6 |
| 10 | Analysis of optimal thresholding algorithms for compressed sensing. Signal Processing, 2021, 187, 108148. | 3.7 | 13 |
| 11 | Event driven sensor fusion. Signal Processing, 2021, 188, 108241. | 3.7 | 1 |
| 12 | On the Efficiency of Random Permutation for ADMM and Coordinate Descent. Mathematics of Operations Research, 2020, 45, 233-271. | 1.3 | 12 |
| 13 | A Proximal Alternating Direction Method of Multiplier for Linearly Constrained Nonconvex Minimization. SIAM Journal on Optimization, 2020, 30, 2272-2302. | 2.0 | 37 |
| 14 | Linear Multiple Low-Rank Kernel Based Stationary Gaussian Processes Regression for Time Series. IEEE Transactions on Signal Processing, 2020, 68, 5260-5275. | 5.3 | 22 |
| 15 | A Block Successive Upper-Bound Minimization Method of Multipliers for Linearly Constrained Convex Optimization. Mathematics of Operations Research, 2020, 45, 833-861. | 1.3 | 13 |
| 16 | A Proximal Dual Consensus Method for Linearly Coupled Multi-Agent Non-Convex Optimization. , 2020, , . | | 2 |
| 17 | Inexact Block Coordinate Descent Algorithms for Nonsmooth Nonconvex Optimization. IEEE Transactions on Signal Processing, 2020, 68, 947-961. | 5.3 | 39 |
| 18 | Quadratic Matrix Inequality Approach to Robust Adaptive Beamforming for General-Rank Signal Model. IEEE Transactions on Signal Processing, 2020, 68, 2244-2255. | 5.3 | 8 |

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| 19 | Globally Optimal Joint Uplink Base Station Association and Beamforming. IEEE Transactions on Communications, 2019, 67, 6456-6467. | 7.8 | 2 |
| 20 | Minimax Design of Constant Modulus MIMO Waveforms for Active Sensing. IEEE Signal Processing Letters, 2019, 26, 1531-1535. | 3.6 | 17 |
| 21 | A linearly convergent doubly stochastic Gauss–Seidel algorithm for solving linear equations and a certain class of over-parameterized optimization problems. Mathematical Programming, 2019, 176, 465-496. | 2.4 | 9 |
| 22 | A Distributed Method for Optimal Capacity Reservation. Journal of Optimization Theory and Applications, 2019, 182, 1130-1149. | 1.5 | 3 |
| 23 | OPTIMAL ASYNCHRONOUS MULTI-SENSOR REGISTRATION IN 3 DIMENSIONS. , 2018, , . | | 3 |
| 24 | Sparse Structure Enabled Grid Spectral Mixture Kernel for Temporal Gaussian Process Regression. , 2018, , . | | 8 |
| 25 | Optimal Network Function Virtualization and Service Function Chaining: A Survey. Chinese Journal of Electronics, 2018, 27, 704-717. | 1.5 | 79 |
| 26 | A New Sequential Optimization Procedure and Its Applications to Resource Allocation for Wireless Systems. IEEE Transactions on Signal Processing, 2018, 66, 6518-6533. | 5.3 | 82 |
| 27 | Optimal estimation of sensor biases for asynchronous multi-sensor data fusion. Mathematical Programming, 2018, 170, 357-386. | 2.4 | 21 |
| 28 | Dynamic Resource Allocation for Energy Efficient Transmission in Digital Subscriber Lines. IEEE Transactions on Signal Processing, 2017, 65, 4353-4366. | 5.3 | 2 |
| 29 | On the Complexity of Optimal Power Allocation in a Multi-Tone Multiuser Communication System. IEEE Transactions on Information Theory, 2017, 63, 6622-6627. | 2.4 | 0 |
| 30 | A two-stage optimization approach to the asynchronous multi-sensor registration problem. , 2017, , . | | 4 |
| 31 | Iteration complexity analysis of block coordinate descent methods. Mathematical Programming, 2017, 163, 85-114. | 2.4 | 70 |
| 32 | Constructing New Weighted $\ell_1$-Algorithms for the Sparsest Points of Polyhedral Sets. Mathematics of Operations Research, 2017, 42, 57-76. | 1.3 | 15 |
| 33 | Network Slicing for Service-Oriented Networks Under Resource Constraints. IEEE Journal on Selected Areas in Communications, 2017, 35, 2512-2521. | 14.0 | 81 |
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| 35 | A Stochastic Successive Minimization Method for Nonsmooth Nonconvex Optimization with Applications to Transceiver Design in Wireless Communication Networks. Mathematical Programming, 2016, 157, 515-545. | 2.4 | 54 |
| 36 | Convergence Analysis of Alternating Direction Method of Multipliers for a Family of Nonconvex Problems. SIAM Journal on Optimization, 2016, 26, 337-364. | 2.0 | 493 |

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| 38 | Joint Downlink Base Station Association and Power Control for Max-Min Fairness: Computation and Complexity. IEEE Journal on Selected Areas in Communications, 2015, 33, 1040-1054. | 14.0 | 75 |
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| 40 | Optimal Joint Base Station Assignment and Beamforming for Heterogeneous Networks. IEEE Transactions on Signal Processing, 2014, 62, 1950-1961. | 5.3 | 50 |
| 41 | Semidefinite Approximation for Mixed Binary Quadratically Constrained Quadratic Programs. SIAM Journal on Optimization, 2014, 24, 1265-1293. | 2.0 | 9 |
| 42 | Cross-Layer Provision of Future Cellular Networks: A WMMSE-based approach. IEEE Signal Processing Magazine, 2014, 31, 56-68. | 5.6 | 30 |
| 43 | Min Flow Rate Maximization for Software Defined Radio Access Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 1282-1294. | 14.0 | 60 |
| 44 | On the Linear Convergence of the Approximate Proximal Splitting Method for Non-smooth Convex Optimization. Journal of the Operations Research Society of China, 2014, 2, 123-141. | 1.4 | 7 |
| 45 | On the Linear Convergence of a Proximal Gradient Method for a Class of Nonsmooth Convex Minimization Problems. Journal of the Operations Research Society of China, 2013, 1, 163-186. | 1.4 | 24 |
| 46 | Joint Base Station Clustering and Beamformer Design for Partial Coordinated Transmission in Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 226-240. | 14.0 | 226 |
| 47 | Max-Min Fairness Linear Transceiver Design for a Multi-User MIMO Interference Channel. IEEE Transactions on Signal Processing, 2013, 61, 2413-2423. | 5.3 | 53 |
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| 53 | Linear Transceiver Design for Interference Alignment: Complexity and Computation. IEEE Transactions on Information Theory, 2012, 58, 2896-2910. | 2.4 | 119 |
| 54 | An Iteratively Weighted MMSE Approach to Distributed Sum-Utility Maximization for a MIMO Interfering Broadcast Channel. IEEE Transactions on Signal Processing, 2011, 59, 4331-4340. | 5.3 | 1,290 |

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| 66 | Efficient Convex Relaxation Methods for Robust Target Localization by a Sensor Network Using Time Differences of Arrivals. IEEE Transactions on Signal Processing, 2009, 57, 2775-2784. | 5.3 | 240 |
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| 143 | On the rate of convergence of a distributed asynchronous routing algorithm. IEEE Transactions on Automatic Control, 1994, 39, 1123-1129. | 5.7 | 11 |
| 144 | Error Bound and Reduced-Gradient Projection Algorithms for Convex Minimization over a Polyhedral Set. SIAM Journal on Optimization, 1993, 3, 43-59. | 2.0 | 21 |

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