

Lizhong Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

6,067
citations

471061

17
h-index

454577

30
g-index

57
all docs

57
docs citations

57
times ranked

2889
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Diversity and multiplexing: a fundamental tradeoff in multiple-antenna channels. IEEE Transactions on Information Theory, 2003, 49, 1073-1096. | 1.5 | 3,290 |
| 2 | Communication on the Grassmann manifold: a geometric approach to the noncoherent multiple-antenna channel. IEEE Transactions on Information Theory, 2002, 48, 359-383. | 1.5 | 763 |
| 3 | Diversity–Multiplexing Tradeoff in Multiple-Access Channels. IEEE Transactions on Information Theory, 2004, 50, 1859-1874. | 1.5 | 444 |
| 4 | Fundamental Limits of Communication With Low Probability of Detection. IEEE Transactions on Information Theory, 2016, 62, 3493-3503. | 1.5 | 275 |
| 5 | Cooperative Routing in Static Wireless Networks. IEEE Transactions on Communications, 2007, 55, 2185-2192. | 4.9 | 192 |
| 6 | Channel Coherence in the Low-SNR Regime. IEEE Transactions on Information Theory, 2007, 53, 976-997. | 1.5 | 116 |
| 7 | Amplify-and-Forward in Wireless Relay Networks: Rate, Diversity, and Network Size. IEEE Transactions on Information Theory, 2007, 53, 3302-3318. | 1.5 | 107 |
| 8 | Efficient fault-diagnosis algorithms for all-optical WDM networks with probabilistic link failures. Journal of Lightwave Technology, 2005, 23, 3358-3371. | 2.7 | 85 |
| 9 | On Noncoherent MIMO Channels in the Wideband Regime: Capacity and Reliability. IEEE Transactions on Information Theory, 2007, 53, 1983-2009. | 1.5 | 63 |
| 10 | Reliability and route diversity in wireless networks. IEEE Transactions on Wireless Communications, 2008, 7, 4772-4776. | 6.1 | 63 |
| 11 | Unequal Error Protection: An Information-Theoretic Perspective. IEEE Transactions on Information Theory, 2009, 55, 5511-5539. | 1.5 | 62 |
| 12 | Wideband Fading Channels With Feedback. IEEE Transactions on Information Theory, 2010, 56, 6058-6065. | 1.5 | 57 |
| 13 | Mutual dependence for secret key agreement. , 2010, , . | | 53 |
| 14 | Bursty transmission and glue pouring: on wireless channels with overhead costs. IEEE Transactions on Wireless Communications, 2008, 7, 5188-5194. | 6.1 | 51 |
| 15 | An Efficient Approach to Informative Feature Extraction from Multimodal Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5281-5288. | 3.6 | 39 |
| 16 | An Information-Theoretic Approach to Transferability in Task Transfer Learning. , 2019, , . | | 39 |
| 17 | A Coordinate System for Gaussian Networks. IEEE Transactions on Information Theory, 2012, 58, 721-733. | 1.5 | 37 |
| 18 | Euclidean Information Theory. , 2008, , . | | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | On approaching wideband capacity using multitone FSK. IEEE Journal on Selected Areas in Communications, 2005, 23, 1830-1838. | 9.7 | 29 |
| 20 | Linear information coupling problems. , 2012, , . | | 24 |
| 21 | Limits of low-probability-of-detection communication over a discrete memoryless channel. , 2015, , . | | 21 |
| 22 | Linear Universal Decoding for Compound Channels. IEEE Transactions on Information Theory, 2010, 56, 5999-6013. | 1.5 | 17 |
| 23 | Writing on Fading Paper, Dirty Tape With Little Ink: Wideband Limits for Causal Transmitter CSI. IEEE Transactions on Information Theory, 2012, 58, 5388-5397. | 1.5 | 17 |
| 24 | Communication Theoretic Data Analytics. IEEE Journal on Selected Areas in Communications, 2015, 33, 663-675. | 9.7 | 16 |
| 25 | An Information Theoretic Interpretation to Deep Neural Networks. , 2019, , . | | 15 |
| 26 | Errors-and-Erasures Decoding for Block Codes With Feedback. IEEE Transactions on Information Theory, 2012, 58, 24-49. | 1.5 | 14 |
| 27 | On capacity of optical channels with coherent detection. , 2011, , . | | 12 |
| 28 | Bounds between contraction coefficients. , 2015, , . | | 12 |
| 29 | Multiterminal Secret Key Agreement. IEEE Transactions on Information Theory, 2014, 60, 3379-3412. | 1.5 | 11 |
| 30 | Euclidean Information Theory of Networks. IEEE Transactions on Information Theory, 2015, 61, 6795-6814. | 1.5 | 11 |
| 31 | An Information Theoretic Interpretation to Deep Neural Networks. Entropy, 2022, 24, 135. | 1.1 | 10 |
| 32 | Writing on Fading Paper and Causal Transmitter CSI. , 2006, , . | | 9 |
| 33 | Design of Generalized Analog Network Coding for a Multiple-Access Relay Channel. IEEE Transactions on Communications, 2014, , 1-1. | 4.9 | 8 |
| 34 | Efficient statistics: Extracting information from IID observations. , 2014, , . | | 8 |
| 35 | Superadditivity of Quantum Channel Coding Rate With Finite Blocklength Joint Measurements. IEEE Transactions on Information Theory, 2016, 62, 5938-5959. | 1.5 | 7 |
| 36 | Capacity of optical communications over a lossy bosonic channel with a receiver employing the most general coherent electro-optic feedback control. Physical Review A, 2017, 96, . | 1.0 | 7 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Upper bounds to error probability with feedback. , 2009, , . | | 6 |
| 38 | Bit-Wise Unequal Error Protection for Variable-Length Block Codes With Feedback. IEEE Transactions on Information Theory, 2013, 59, 1475-1504. | 1.5 | 5 |
| 39 | Polynomial Singular Value Decompositions of a Family of Source-Channel Models. IEEE Transactions on Information Theory, 2017, 63, 7716-7728. | 1.5 | 5 |
| 40 | OPN02-4: Efficient Fault Detection and Localization for All-Optical Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , . | 0.0 | 4 |
| 41 | Polynomial spectral decomposition of conditional expectation operators. , 2016, , . | | 4 |
| 42 | An information-theoretic approach to unsupervised feature selection for high-dimensional data. , 2017, , . | | 4 |
| 43 | Target models and waveform design for detection in MIMO radar. , 2011, , . | | 3 |
| 44 | Superadditivity of quantum channel coding rate with finite blocklength quantum measurements. , 2014, , . | | 3 |
| 45 | A Local Characterization for Wyner Common Information. , 2020, , . | | 3 |
| 46 | On Error Probability for Non-coherent MIMO Channels in the Wideband Regime. , 2006, , . | | 2 |
| 47 | On training with feedback in wideband channels. IEEE Journal on Selected Areas in Communications, 2008, 26, 1607-1614. | 9.7 | 2 |
| 48 | Achievability of nonlinear degrees of freedom in correlatively changing fading channels. , 2014, , . | | 2 |
| 49 | A spectrum decomposition to the feature spaces and the application to big data analytics. , 2015, , . | | 2 |
| 50 | Communication theoretic inference on heterogeneous data. , 2016, , . | | 2 |
| 51 | On Estimation of Modal Decompositions. , 2020, , . | | 2 |
| 52 | Superadditivity of quantum channel coding rate with finite blocklength quantum measurements. , 2013, , . | | 1 |
| 53 | Euclidean information theory of networks. , 2013, , . | | 1 |
| 54 | On training with feedback in wideband channels. , 2008, , . | | 0 |

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|----|----------------------------------------------------------------------------------------------------------|----|-----------|
| 55 | Upper bounds to error probability with feedback. , 2009, , . | | 0 |
| 56 | The design of binary shaping filter of binary code. , 2010, , . | | 0 |
| 57 | Degrees of freedom in fading channels with memory: Achievability through nonlinear decoding. , 2014, , . | | 0 |