

# Kenneth Rose

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

467  
citations

11  
h-index

18  
g-index

106  
ext. papers

618  
ext. citations

3.9  
avg, IF

3.83  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 78 | Advances in Recursive Per-Pixel End-to-End Distortion Estimation for Robust Video Coding in H.264/AVC. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2007</b> , 17, 845-856 | 6.4 | 45        |
| 77 | Towards jointly optimal spatial prediction and adaptive transform in video/image coding <b>2010</b> ,  |     | 40        |
| 76 | On Zero-Delay Source-Channel Coding. <i>IEEE Transactions on Information Theory</i> , <b>2014</b> , 60, 7473-7489  | 2.8 | 36        |
| 75 | Optimal mappings for joint source channel coding <b>2010</b> ,   |     | 29        |
| 74 | Optimized Analog Mappings for Distributed Source-Channel Coding <b>2010</b> ,  |     | 22        |
| 73 | On conditions for linearity of optimal estimation <b>2010</b> ,  |     | 21        |
| 72 | <b>2014</b> ,  |     | 16        |
| 71 | The Lossy Common Information of Correlated Sources. <i>IEEE Transactions on Information Theory</i> , <b>2014</b> , 60, 3238-3253   | 2.8 | 15        |
| 70 | Rotational motion model for temporal prediction in 360 video coding <b>2017</b> ,  |     | 15        |
| 69 | On Conditions for Linearity of Optimal Estimation. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 3497-3508  | 2.8 | 13        |
| 68 | <b>2010</b> ,  |     | 11        |
| 67 | Combinatorial Message Sharing and a New Achievable Region for Multiple Descriptions. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 769-792  | 2.8 | 8         |
| 66 | Deterministic Annealing-Based Optimization for Zero-Delay Source-Channel Coding in Networks. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 5089-5100                                    | 6.9 | 8         |
| 65 | Joint inter-intra prediction based on mode-variant and edge-directed weighting approaches in video coding <b>2014</b> ,  |     | 8         |
| 64 | On optimum communication cost for joint compression and dispersive information routing <b>2010</b> ,   |     | 8         |
| 63 | Estimation-Theoretic Delayed Decoding of Predictively Encoded Video Sequences <b>2010</b> ,  |     | 8         |
| 62 | Combinatorial Message Sharing for a refined multiple descriptions achievable region <b>2011</b> ,  |     | 8         |

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|----|--|-----|---|
| 61 | On Optimal Jamming Over an Additive Noise Channel <b>2013</b> ,  |     | 7 |
| 60 | On Scalable Distributed Coding of Correlated Sources. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 2875-2883                                  | 4.8 | 7 |
| 59 | On Constrained Randomized Quantization. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 3291-3302  | 4.8 | 6 |
| 58 | Jointly Optimized Mode Decisions in Redundant Video Streaming. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 513-518   | 6.4 | 6 |
| 57 | Advances in Classification and Compression of Power Quality Signals. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2019</b> , 30, 402-412      | 1.5 | 6 |
| 56 | Asymptotic closed-loop design for transform domain temporal prediction <b>2015</b> ,   |     | 5 |
| 55 | Robust Distributed Source Coder Design by Deterministic Annealing. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 859-868                       | 4.8 | 5 |
| 54 | A joint spatio-temporal filtering approach to efficient prediction in video compression <b>2013</b> ,  |     | 4 |
| 53 | A recursive optimal spectral estimate of end-to-end distortion in video communications <b>2010</b> ,   |     | 4 |
| 52 | Transform-domain temporal prediction in video coding with spatially adaptive spectral correlations <b>2011</b> ,   |     | 4 |
| 51 | On common information and the encoding of sources that are not successively refinable <b>2012</b> ,  |     | 4 |
| 50 | Trellis-Based Approaches to Rate-Distortion Optimized Audio Encoding. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2010</b> , 18, 330-341 |     | 4 |
| 49 | Fast adaptive Mahalanobis distance-based search and retrieval in image databases <b>2008</b> ,   |     | 4 |
| 48 | Distributed Predictive Coding For Spatio-Temporally Correlated Sources <b>2007</b> ,   |     | 4 |
| 47 | A pre-filtering approach to exploit decoupled prediction and transform block structures in video coding <b>2014</b> ,  |     | 3 |
| 46 | Hidden Markov model-based multi-modal image fusion with efficient training <b>2014</b> ,   |     | 3 |
| 45 | Optimization of zero-delay mappings for distributed coding by deterministic annealing <b>2014</b> ,  |     | 3 |
| 44 | Towards optimum cost in multi-hop networks with arbitrary network demands <b>2010</b> ,  |     | 3 |

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| 43 | Optimal delayed decoding of predictively encoded sources <b>2010</b> ,   | 3     |
| 42 | Joint optimization of the perceptual core and lossless compression layers in scalable audio coding <b>2010</b> ,   | 3     |
| 41 | A spectral approach to recursive end-to-end distortion estimation for sub-pixel motion-compensated video coding <b>2011</b> ,  | 3     |
| 40 | Cascaded long term prediction for coding polyphonic audio signals <b>2011</b> ,  | 3     |
| 39 | First-order distortion estimation for efficient video streaming at moderate to high packet loss rates <b>2007</b> ,  | 3     |
| 38 | An MDCT Domain Frame-Loss Concealment Technique for MPEG Advanced Audio Coding <b>2007</b> ,   | 3     |
| 37 | <b>2019</b> ,  | 2     |
| 36 | 2D hidden Markov model with spatially adaptive state-space for tracing many cells in image sequence <b>2015</b> ,  | 2     |
| 35 | Transform domain temporal prediction with extended blocks <b>2016</b> ,  | 2     |
| 34 | An error-resilient video coding framework with soft reset and end-to-end distortion optimization <b>2017</b> ,   | 2     |
| 33 | On relaxing the strict hierarchical constraints in layered coding of audio signals <b>2014</b> ,   | 2     |
| 32 | Joint Optimization of Base and Enhancement Layers in Scalable Audio Coding. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 711-724 | 2     |
| 31 | Deformable trellises on factor graphs for robust microtubule tracking in clutter <b>2012</b> ,   | 2     |
| 30 | Distributed Predictive Coding for Spatio-Temporally Correlated Sources. <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 4066-4075                      | 4.8 2 |
| 29 | A perceptually enhanced Scalable-to-Lossless audio coding scheme and a trellis-based approach for its optimization <b>2009</b> ,   | 2     |
| 28 | Distributed Multi-stage Coding of Correlated Sources. <i>Proceedings of the Data Compression Conference</i> , <b>2008</b> ,  | 2     |
| 27 | Macroblock-based retransmission for error-resilient video streaming <b>2008</b> ,  | 2     |
| 26 | Adaptive Cluster-Distance Bounding for Nearest Neighbor Search in Image Databases <b>2007</b> ,  | 2     |

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| 25 | Challenges and Recent Advances in Distributed Predictive Coding <b>2007</b> ,  |     | 2 |
| 24 | Optical Flow Based Co-located Reference Frame for Video Compression. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , PP,  | 8.7 | 2 |
| 23 | Motion Compensated Prediction for Translational Camera Motion in Spherical Video Coding <b>2018</b> ,  |     | 2 |
| 22 | <b>2019</b> ,  |     | 1 |
| 21 | Recursive end-to-end distortion estimation for error-resilient adaptive predictive compression systems <b>2016</b> ,   |     | 1 |
| 20 | Cascaded Long Term Prediction for Enhanced Compression of Polyphonic Audio Signals. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2014</b> , 22, 697-710 | 3.6 | 1 |
| 19 | Adaptive interpolated motion compensated prediction <b>2017</b> ,  |     | 1 |
| 18 | On generalizing the estimation-theoretic framework to scalable video coding with quadtree structured block partitions <b>2017</b> ,  |     | 1 |
| 17 | Bidirectional cascaded long term prediction for frame loss concealment in polyphonic audio signals <b>2012</b> ,   |     | 1 |
| 16 | Graphical Model-Based Tracking of Curvilinear Structures in Bio-image Sequences <b>2010</b> ,  |     | 1 |
| 15 | On multidimensional optimal estimators: Linearity conditions <b>2011</b> ,   |     | 1 |
| 14 | Scalable distributed source coding <b>2009</b> ,   |     | 1 |
| 13 | On Complementary Graph Entropy. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 2537-2546   | 2.8 | 1 |
| 12 | A necessary and sufficient condition for transform optimality in source coding <b>2011</b> ,   |     | 1 |
| 11 | Hidden Markov models for tracking neuronal structure contours in electron micrograph stacks <b>2012</b> ,  |     | 1 |
| 10 | A conditional enhancement-layer quantizer for the scalable MPEG advanced Audio Coder <b>2002</b> ,   |     | 1 |
| 9  | Spherical Video Coding with Geometry and Region Adaptive Transform Domain Temporal Prediction <b>2020</b> ,  |     | 1 |
| 8  | Quantizer design for exploiting common information in layered coding <b>2016</b> ,   |     | 1 |

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| 7 | Analog multiple descriptions: A zero-delay source-channel coding approach <b>2016</b> ,  |     | 1 |
| 6 | Estimation of roughness-induced scattering losses in III-nitride laser diodes with a photoelectrochemically etched current aperture. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 953-957                                | 1.6 | 0 |
| 5 | Fusion Coding of Correlated Sources for Storage and Selective Retrieval. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 1722-1731   | 4.8 |   |
| 4 | A fractals-inspired approach to binary image database indexing and retrieval. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2000</b> , 55, 194-200   | 2   |   |
| 3 | Effective Prediction Modes Design for Adaptive Compression With Application in Video Coding.. <i>IEEE Transactions on Image Processing</i> , <b>2022</b> , 31, 636-647   | 8.7 |   |
| 2 | Estimation of roughness-induced scattering losses in III-nitride laser diodes with a photoelectrochemically etched current aperture (Phys. Status Solidi A 4016). <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 1096-1096 | 1.6 |   |
| 1 | Quantizer Design to Exploit Common Information in Layered and Scalable Coding. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 1787-1796   | 4.8 |   |