

# Benoît Champagne

## List of Publications by Year in descending order

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Version: 2024-02-01

177  
papers

2,301  
citations

293460

24  
h-index

312153

41  
g-index

177  
all docs

177  
docs citations

177  
times ranked

2283  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | PACDNN: A phase-aware composite deep neural network for speech enhancement. <i>Speech Communication</i> , 2022, 136, 1-13.   | 1.6 | 12        |
| 2  | Uncertainty Estimation via Monte Carlo Dropout in CNN-Based mmWave MIMO Localization. <i>IEEE Signal Processing Letters</i> , 2022, 29, 269-273.                   | 2.1 | 4         |
| 3  | Channel Estimation for Hybrid Massive MIMO Systems With Adaptive-Resolution ADCs. <i>IEEE Transactions on Communications</i> , 2022, 70, 2131-2146.                | 4.9 | 1         |
| 4  | Joint Parameter and Time-Delay Estimation for a Class of Nonlinear Time-Series Models. <i>IEEE Signal Processing Letters</i> , 2022, 29, 947-951.                  | 2.1 | 56        |
| 5  | Energy-Efficient Resource Allocation for D2D-Assisted Fog Computing. <i>IEEE Transactions on Green Communications and Networking</i> , 2022, 6, 1990-2002.         | 3.5 | 5         |
| 6  | Deep Learning-Based Hybrid Analog-Digital Signal Processing in mmWave Massive-MIMO Systems. <i>IEEE Access</i> , 2022, 10, 72348-72362.                            | 2.6 | 3         |
| 7  | Secure Beamforming for Cognitive Satellite Terrestrial Networks With Unknown Eavesdroppers. <i>IEEE Systems Journal</i> , 2021, 15, 2186-2189.                     | 2.9 | 79        |
| 8  | Secure and Energy Efficient Transmission for RSMA-Based Cognitive Satellite-Terrestrial Networks. <i>IEEE Wireless Communications Letters</i> , 2021, 10, 251-255. | 3.2 | 137       |
| 9  | Speech Enhancement With Phase Sensitive Mask Estimation Using a Novel Hybrid Neural Network. <i>IEEE Open Journal of Signal Processing</i> , 2021, 2, 136-150.     | 2.3 | 8         |
| 10 | A Green Downlink Power Allocation Scheme for Cell-Free Massive MIMO Systems. <i>IEEE Access</i> , 2021, 9, 6498-6512.  | 2.6 | 6         |
| 11 | A Distributed Pulse-Based Synchronization Protocol for Half-Duplex D2D Communications. <i>IEEE Open Journal of the Communications Society</i> , 2021, 2, 245-261.  | 4.4 | 4         |
| 12 | Success-Probability-Based Power Allocation for Downlink PNC in Multi-way Relay Channels. , 2021, , .   |     | 0         |
| 13 | A Novel Low-Complexity Attention-Driven Composite Model for Speech Enhancement. , 2021, , .  |     | 2         |
| 14 | Secrecy-Energy Efficient Hybrid Beamforming for Satellite-Terrestrial Integrated Networks. <i>IEEE Transactions on Communications</i> , 2021, 69, 6345-6360.       | 4.9 | 133       |
| 15 | DNN-Based Calibrated-Filter Models for Speech Enhancement. <i>Circuits, Systems, and Signal Processing</i> , 2021, 40, 2926-2949.                                  | 1.2 | 4         |
| 16 | Energy-Efficient User Clustering and Downlink Beamforming for MIMO-SCMA in C-RAN. <i>IEEE Access</i> , 2021, 9, 115175-115191.                                     | 2.6 | 5         |
| 17 | All-Analog Structures for AF Relaying in mmWave Massive MIMO Systems. , 2021, , .  |     | 0         |
| 18 | Energy-Efficient Resource Allocation for Latency-Sensitive Mobile Edge Computing. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 2246-2262.          | 3.9 | 40        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Efficient Resource Allocation for Relay-Assisted Computation Offloading in Mobile-Edge Computing. IEEE Internet of Things Journal, 2020, 7, 2452-2468.                           | 5.5 | 37        |
| 20 | Generalized Framework for Hybrid Analog/Digital Signal Processing in Massive and Ultra-Massive-MIMO Systems. IEEE Access, 2020, 8, 100262-100279.                                | 2.6 | 9         |
| 21 | Secure Hybrid A/D Beamforming for Hardware-Efficient Large-Scale Multiple-Antenna SWIPT Systems. IEEE Transactions on Communications, 2020, 68, 6141-6156.                       | 4.9 | 9         |
| 22 | Padded Coprime Arrays for Improved DOA Estimation: Exploiting Hole Representation and Filling Strategies. IEEE Transactions on Signal Processing, 2020, 68, 4597-4611.           | 3.2 | 63        |
| 23 | A hybrid speech enhancement system with DNN based speech reconstruction and Kalman filtering. Multimedia Tools and Applications, 2020, 79, 32643-32663.                          | 2.6 | 2         |
| 24 | Speech Separation Using a Composite Model for Complex Mask Estimation. , 2020, , .   |     | 2         |
| 25 | Robust Hybrid Beamforming for Satellite-Terrestrial Integrated Networks. , 2020, , .   |     | 4         |
| 26 | Achieving Fully-Digital Performance by Hybrid Analog/Digital Beamforming in Wide-Band Massive-Mimo Systems. , 2020, , .  |     | 3         |
| 27 | Two-Timescale Hybrid Analog-Digital Beamforming for mmWave Full-Duplex MIMO Multiple-Relay Aided Systems. IEEE Journal on Selected Areas in Communications, 2020, 38, 2086-2103. | 9.7 | 28        |
| 28 | Energy-Efficient Group-Sparse Transceiver Design for Multiuser MIMO Relaying in C-RAN. IEEE Transactions on Green Communications and Networking, 2020, 4, 703-716.               | 3.5 | 1         |
| 29 | A Novel Cooperative HARQ Protocol for Free-Space Optical Broadcasting Systems. Journal of Lightwave Technology, 2020, 38, 1789-1799.   | 2.7 | 8         |
| 30 | Improving Caching Efficiency in Content-Aware C-RAN-Based Cooperative Beamforming: A Joint Design Approach. IEEE Transactions on Wireless Communications, 2020, 19, 4125-4140.   | 6.1 | 9         |
| 31 | Switch-Based Hybrid Analog/Digital Channel Estimation for mmWave Massive MIMO. , 2020, , .   |     | 0         |
| 32 | Joint Content Placement, RRH Clustering and Beamforming for Cache-Enabled Cloud-RAN. , 2019, , .   |     | 4         |
| 33 | NOMA-based cooperative relaying for secondary transmission in cognitive radio networks. IET Communications, 2019, 13, 1840-1851.   | 1.5 | 13        |
| 34 | Robust Joint Hybrid Transceiver Design for Millimeter Wave Full-Duplex MIMO Relay Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1199-1215.                    | 6.1 | 68        |
| 35 | Novel Detection Methods for Zero-padded Single Carrier Spatial Modulation in Doubly Selective Channels. , 2019, , .  |     | 0         |
| 36 | Design Criteria for Omnidirectional STBC in Massive MIMO Systems. IEEE Wireless Communications Letters, 2019, 8, 1435-1439.  | 3.2 | 12        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Self-regularized nonlinear diffusion algorithm based on levenberg gradient descent. Signal Processing, 2019, 163, 107-114.  | 2.1 | 10        |
| 38 | A Deep Neural Network Based Kalman Filter for Time Domain Speech Enhancement. , 2019, , .   |     | 18        |
| 39 | A Fully Convolutional Neural Network for Complex Spectrogram Processing in Speech Enhancement. , 2019, , .  |     | 35        |
| 40 | Dynamic Resource Allocation for LTE-Based Vehicle-to-Infrastructure Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5017-5030.   | 3.9 | 15        |
| 41 | Recurrent Neural Network-Based Dictionary Learning for Compressive Speech Sensing. Circuits, Systems, and Signal Processing, 2019, 38, 3616-3643.   | 1.2 | 6         |
| 42 | Optimizing Transmission Rate in NOMA via Block Diagonalization Beamforming and Power Allocation. , 2019, , .  |     | 4         |
| 43 | Extended Target Frequency Response Estimation Using Infinite Hmm in Cognitive Radars. , 2019, , .   |     | 1         |
| 44 | Fully Distributed Energy-Efficient Synchronization for Half-duplex D2D Communications. , 2019, , .  |     | 3         |
| 45 | Covariance-free non-homogeneity STAP detector in compound Gaussian clutter based on robust statistics. IET Radar, Sonar and Navigation, 2019, 13, 2107-2119.                              | 0.9 | 6         |
| 46 | Efficient Detection Scheme for Physical-Layer Network Coding in Multiway Relay Channels. IEEE Access, 2019, 7, 167639-167652.   | 2.6 | 3         |
| 47 | Joint Beamforming and Jamming Design for mmWave Information Surveillance Systems. IEEE Journal on Selected Areas in Communications, 2018, 36, 1410-1425.                                  | 9.7 | 31        |
| 48 | Joint Design of Beam Selection and Precoding Matrices for mmWave MU-MIMO Systems Relying on Lens Antenna Arrays. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 313-325. | 7.3 | 28        |
| 49 | A novel approach for ellipsoidal outer-approximation of the intersection region of ellipses in the plane. Computational Optimization and Applications, 2018, 69, 383-402.                 | 0.9 | 0         |
| 50 | Tracking Performance and Optimal Adaptation Step-Sizes of Diffusion-LMS Networks. IEEE Transactions on Control of Network Systems, 2018, 5, 67-78.  | 2.4 | 15        |
| 51 | Efficient Group-Sparse Transceiver Design for Multiuser MIMO Relaying in C-RAN. , 2018, , .   |     | 1         |
| 52 | A SUPERVISED MULTI-CHANNEL SPEECH ENHANCEMENT ALGORITHM BASED ON BAYESIAN NMF MODEL. , 2018, , .  |     | 1         |
| 53 | Fast Converging Distributed Pulse-coupled Clock Synchronization for Half-duplex D2D Communications over Multipath Channels. , 2018, , .   |     | 3         |
| 54 | NOISE-ADAPTIVE DEEP NEURAL NETWORK FOR SINGLE-CHANNEL SPEECH ENHANCEMENT. , 2018, , .   |     | 6         |

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|----|--|-----|-----------|
| 55 | Structured Dictionary Learning for Compressive Speech Sensing. , 2018, , .   |     | 0         |
| 56 | A Low-Complexity Nonparametric STAP Detector. , 2018, , .  |     | 2         |
| 57 | NMF-based speech enhancement using multitaper spectrum estimation. , 2018, , .   |     | 1         |
| 58 | Distributed Nonlinear System Identification in $\alpha$ -Stable Noise. IEEE Signal Processing Letters, 2018, 25, 979-983.  | 2.1 | 18        |
| 59 | Joint frequency offset, time offset, and channel estimation for OFDM/OQAM systems. Eurasip Journal on Advances in Signal Processing, 2018, 2018, 4.                    | 1.0 | 8         |
| 60 | Low-Complexity Reduced-Dimension Space-Time Adaptive Processing for Navigation Receivers. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 3160-3168.  | 2.6 | 5         |
| 61 | Centralized Energy-Efficient Multiuser Multiantenna Relaying in Next-Generation Radio Access Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 7913-7924. | 3.9 | 7         |
| 62 | Nonlinear transceiver design for secure communications with artificial noise-assisted MIMO relay. IET Communications, 2017, 11, 930-935.                               | 1.5 | 4         |
| 63 | Realizing Fully Digital Precoders in Hybrid A/D Architecture With Minimum Number of RF Chains. IEEE Communications Letters, 2017, 21, 2310-2313.                       | 2.5 | 12        |
| 64 | Joint Transceiver Design for Secure Downlink Communications Over an Amplify-and-Forward MIMO Relay. IEEE Transactions on Communications, 2017, 65, 3691-3704.          | 4.9 | 25        |
| 65 | Joint Transceiver Designs for Full-Duplex $K$ -Pair MIMO Interference Channel With SWIPT. IEEE Transactions on Communications, 2017, 65, 890-905.                      | 4.9 | 26        |
| 66 | SIC aided physical-layer network coding for multi-way relay channels. , 2017, , .  |     | 2         |
| 67 | On the use of distributed synchronization in 5G device-to-device networks. , 2017, , .   |     | 9         |
| 68 | Nonlinear MIMO Transceivers Improve Wireless-Powered and Self-Interference-Aided Relaying. IEEE Transactions on Wireless Communications, 2017, 16, 6953-6966.          | 6.1 | 10        |
| 69 | Single-channel enhancement of convolutive noisy speech based on a discriminative NMF algorithm. , 2017, , .  |     | 2         |
| 70 | Joint Transceiver Design With Antenna Selection for Large-Scale MU-MIMO mmWave Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2085-2096.         | 9.7 | 48        |
| 71 | A Weighted Combining Algorithm for Spatial Multiplexing MIMO DF Relaying Systems. IEEE Transactions on Communications, 2017, 65, 4751-4764.                            | 4.9 | 2         |
| 72 | Joint design of beam selection and precoding for mmWave MU-MIMO systems with lens antenna array. , 2017, , .   |     | 4         |

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|----|--|-----|-----------|
| 73 | Steady-state analysis of the maximum correntropy Volterra filter with application to nonlinear channel equalization. , 2017, , .                         |     | 2         |
| 74 | UFMC-based wideband spectrum sensing for cognitive radio systems in non-Gaussian noise. , 2017, , .  |     | 3         |
| 75 | Intercept probability-constrained secure MIMO AF relaying with arbitrarily distributed ECSI errors. , 2016, , .  |     | 1         |
| 76 | Robust and secure beamformer design for MIMO relaying with imperfect eavesdropper CSI. , 2016, , .   |     | 0         |
| 77 | A Weighted Combining Algorithm for Spatial Multiplexing MIMO DF Relaying Systems. , 2016, , .  |     | 1         |
| 78 | Joint Secure AF Relaying and Artificial Noise Optimization: A Penalized Difference-of-Convex Programming Framework. IEEE Access, 2016, 4, 10076-10095.   | 2.6 | 5         |
| 79 | Enhanced autonomous resource selection for LTE-based V2V communication. , 2016, , .  |     | 43        |
| 80 | Recent Developments in Speech Enhancement in the Short-Time Fourier Transform Domain. IEEE Circuits and Systems Magazine, 2016, 16, 45-77.               | 2.6 | 55        |
| 81 | Joint Transceiver Design Algorithms for Multiuser MISO Relay Systems with Energy Harvesting. IEEE Transactions on Communications, 2016, , 1-1.           | 4.9 | 22        |
| 82 | Single channel speech enhancement using subband iterative Kalman filter. , 2016, , .   |     | 14        |
| 83 | Speech dereverberation using linear prediction with estimation of early speech spectral variance. , 2016, , .  |     | 1         |
| 84 | Joint transceiver designs for secure communications over MIMO relay. , 2016, , .   |     | 2         |
| 85 | Basis compensation in non-negative matrix factorization model for speech enhancement. , 2016, , .  |     | 3         |
| 86 | Low-complexity factor-graph-based MAP detector for filter bank multicarrier systems. Journal of Communications and Information Networks, 2016, 1, 10-22. | 3.5 | 1         |
| 87 | Discriminative Training of NMF Model Based on Class Probabilities for Speech Enhancement. IEEE Signal Processing Letters, 2016, 23, 502-506.             | 2.1 | 12        |
| 88 | Diffusion LMS Strategies in Sensor Networks With Noisy Input Data. IEEE/ACM Transactions on Networking, 2016, 24, 3-14.                                  | 2.6 | 54        |
| 89 | Tight Two-Dimensional Outer-Approximations of Feasible Sets in Wireless Sensor Networks. IEEE Communications Letters, 2016, 20, 570-573.                 | 2.5 | 3         |
| 90 | Diffusion Adaptation over Multi-Agent Networks with Wireless Link Impairments. IEEE Transactions on Mobile Computing, 2016, 15, 1362-1376.               | 3.9 | 23        |

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|-----|---|-----|-----------|
| 91  | Security-Reliability Tradeoff Analysis of Multirelay-Aided Decode-and-Forward Cooperation Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5825-5831.                        | 3.9 | 44        |
| 92  | Secure MIMO AF Relaying Design: An Intercept Probability Constrained Approach. , 2015, , .  |     | 3         |
| 93  | On the use of a codebook-based modeling approach for Bayesian STSA speech enhancement. , 2015, , .  |     | 0         |
| 94  | A new algorithm for noise PSD matrix estimation in multi-microphone speech enhancement based on recursive smoothing. , 2015, , .  |     | 2         |
| 95  | Robust Transceiver Design for MISO Interference Channel with Energy Harvesting. , 2015, , .   |     | 4         |
| 96  | Speech enhancement in modulation domain using codebook-based speech and noise estimation. , 2015, , .   |     | 1         |
| 97  | Joint Carrier Frequency Offset, Sampling Time Offset and Channel Estimation for OFDM-OQAM Systems. , 2015, , .  |     | 5         |
| 98  | MIMO AF relaying security: Robust transceiver design in the presence of multiple eavesdroppers. , 2015, , .   |     | 5         |
| 99  | Semiblind Channel Estimation for OFDM/OQAM Systems. IEEE Signal Processing Letters, 2015, 22, 400-403.  | 2.1 | 19        |
| 100 | Relay-Selection Improves the Security-Reliability Trade-Off in Cognitive Radio Systems. IEEE Transactions on Communications, 2015, 63, 215-228.   | 4.9 | 233       |
| 101 | Centralized Adaptation for Parameter Estimation Over Wireless Sensor Networks. IEEE Communications Letters, 2015, 19, 1624-1627.  | 2.5 | 10        |
| 102 | Tomlinson-Harashima precoding design in MIMO wiretap channels based on the MMSE criterion. , 2015, , .  |     | 9         |
| 103 | Adaptive blind widely linear CCM reduced-rank beamforming for large-scale antenna arrays. , 2015, , .   |     | 2         |
| 104 | Adaptive Reduced-Rank Receive Processing Based on Minimum Symbol-Error-Rate Criterion for Large-Scale Multiple-Antenna Systems. IEEE Transactions on Communications, 2015, 63, 4185-4201. | 4.9 | 17        |
| 105 | Sensor localization in NLOS environments with anchor uncertainty and unknown clock parameters. , 2015, , .  |     | 7         |
| 106 | Joint Transceiver Optimization for MIMO Multiuser Relaying Networks with Channel Uncertainties. , 2014, , .   |     | 3         |
| 107 | Min-max MSE transceiver with switched preprocessing for MIMO interference channels. , 2014, , .   |     | 5         |
| 108 | Cooperative localization of mobile nodes in NLOS. , 2014, , .   |     | 4         |

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|-----|---|-----|-----------|
| 109 | Complexity reduction techniques for blind adaptive beamforming in OFDM antenna arrays. , 2014, , .  |     | 1         |
| 110 | Noise power spectral density matrix estimation based on modified IMCRA. , 2014, , .   |     | 2         |
| 111 | Channel Estimation Using Subspace Decomposition for SC-FDMA Systems. , 2014, , .  |     | 2         |
| 112 | Microphone array based speech spectral amplitude estimators with phase estimation. , 2014, , .  |     | 1         |
| 113 | Regularized NMF-based speech enhancement with spectral components modeled by gaussian mixtures. , 2014, , .   |     | 2         |
| 114 | Estimation of Space-Time Varying Parameters Using a Diffusion LMS Algorithm. IEEE Transactions on Signal Processing, 2014, 62, 403-418.                             | 3.2 | 43        |
| 115 | Distributed cooperative localization in wireless sensor networks without NLOS identification. , 2014, , .   |     | 12        |
| 116 | A ML-Based Framework for Joint TOA/AOA Estimation of UWB Pulses in Dense Multipath Environments. IEEE Transactions on Wireless Communications, 2014, 13, 5305-5318. | 6.1 | 15        |
| 117 | Secure MIMO AF Relaying Design: An Intercept Probability Constrained Approach. , 2014, , .  |     | 0         |
| 118 | A Low-Complexity Hybrid Framework for Combining-Type Non-regenerative MIMO Relaying. Wireless Personal Communications, 2013, 72, 635-652.                           | 1.8 | 1         |
| 119 | Joint Design of Multiple Non-Regenerative MIMO Relaying Matrices With Power Constraints. IEEE Transactions on Signal Processing, 2013, 61, 4861-4873.               | 3.2 | 14        |
| 120 | Low-complexity variable forgetting factor constant modulus RLS-based algorithm for blind adaptive beamforming. , 2013, , .  |     | 2         |
| 121 | Cooperative spectrum sensing based on the rao test in non-Gaussian noise environments. , 2013, , .  |     | 2         |
| 122 | Low-complexity adaptive transceiver techniques for K-pair MIMO interference channels. , 2013, , .   |     | 0         |
| 123 | A General Framework for Mixed-Domain Echo Cancellation in Discrete Multitone Systems. IEEE Transactions on Communications, 2013, 61, 769-780.                       | 4.9 | 7         |
| 124 | Subspace decomposition approach to multi-user MIMO channel estimation in SC-FDE systems. , 2013, , .  |     | 2         |
| 125 | Subspace Decomposition for Channel Estimation in SC-FDE Systems. , 2013, , .  |     | 3         |
| 126 | A joint localization and synchronization technique using time of arrival at multiple antenna receivers. , 2013, , .   |     | 2         |



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|-----|--|-----|-----------|
| 127 | Linear transceiver design for relay-assisted broadcast systems with diagonal scaling. , 2013, , .  |     | 1         |
| 128 | Diffusion LMS localization and tracking algorithm for wireless cellular networks. , 2013, , .  |     | 15        |
| 129 | Diffusion LMS for source and process estimation in sensor networks. , 2012, , .  |     | 9         |
| 130 | On the robustness of oversampled filter bank multi carrier systems against frequency offset. , 2012, , .   |     | 5         |
| 131 | EM-based joint estimation and detection for multiple antenna cognitive radios. , 2012, , .   |     | 1         |
| 132 | Cooperative Multiband Joint Detection With Correlated Spectral Occupancy in Cognitive Radio Networks. IEEE Transactions on Signal Processing, 2012, 60, 2682-2687. | 3.2 | 14        |
| 133 | Multiband joint detection with correlated spectral occupancy in wideband cognitive radios. , 2012, , .   |     | 0         |
| 134 | Blind Recursive Subspace-Based Identification of Time-Varying Wideband MIMO Channels. IEEE Transactions on Vehicular Technology, 2012, 61, 662-674.                | 3.9 | 9         |
| 135 | Multidimensional STSA Estimators for Speech Enhancement With Correlated Spectral Components. IEEE Transactions on Signal Processing, 2011, 59, 3013-3024.          | 3.2 | 18        |
| 136 | An adaptive energy detection technique applied to cognitive radio networks. , 2011, , .  |     | 4         |
| 137 | Diffusion LMS algorithms for sensor networks over non-ideal inter-sensor wireless channels. , 2011, , .  |     | 26        |
| 138 | Wideband Spectrum Sensing for Cognitive Radios With Correlated Subband Occupancy. IEEE Signal Processing Letters, 2011, 18, 35-38.                                 | 2.1 | 32        |
| 139 | MMSE-Based Non-Regenerative Parallel MIMO Relaying with Simplified Receiver. , 2011, , .   |     | 2         |
| 140 | Subspace-Based Blind Channel Estimation for MIMO-OFDM Systems With Reduced Time Averaging. IEEE Transactions on Vehicular Technology, 2010, 59, 1539-1544.         | 3.9 | 47        |
| 141 | Comparative evaluation of the dual transform domain echo canceller for DMT-based systems. , 2010, , .  |     | 2         |
| 142 | A family of Bayesian STSA estimators for the enhancement of speech with correlated frequency components. , 2010, , .   |     | 2         |
| 143 | Dual domain echo cancellers for multirate discrete multitone systems. , 2010, , .  |     | 1         |
| 144 | Non-regenerative MIMO relaying strategies &#x2014; from single to multiple cooperative relays. , 2010, , .   |     | 5         |

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|-----|--|-----|-----------|
| 145 | Distributed Blind Adaptive Algorithms Based on Constant Modulus for Wireless Sensor Networks. , 2010, , .  |     | 21        |
| 146 | Dual Transform Domain Echo Canceller for Discrete Multitone Systems. , 2009, , .   |     | 3         |
| 147 | Subspace tracking of fast time-varying channels in precoded MIMO-OFDM systems. , 2009, , .   |     | 5         |
| 148 | Collaborative Uplink Transmit Beamforming With Robustness Against Channel Estimation Errors. IEEE Transactions on Vehicular Technology, 2009, 58, 126-139.                             | 3.9 | 25        |
| 149 | On convergence properties of subspace trackers based on orthogonal iteration. , 2009, , .  |     | 1         |
| 150 | Constrained Adaptive Echo Cancellation for Discrete Multitone Systems. IEEE Transactions on Signal Processing, 2009, 57, 302-312.  | 3.2 | 6         |
| 151 | Adaptive Training-Based Collaborative MIMO Beamforming for Multiuser Relay Networks. , 2009, , .   |     | 2         |
| 152 | Bayesian spectral amplitude estimation for speech enhancement with correlated spectral components. , 2009, , .   |     | 2         |
| 153 | A Subspace Method for the Blind Identification of Multiple Time-Varying FIR Channels. , 2009, , .  |     | 3         |
| 154 | Generalized Bayesian Estimators of the Spectral Amplitude for Speech Enhancement. IEEE Signal Processing Letters, 2009, 16, 485-488.   | 2.1 | 17        |
| 155 | A Noise-Robust FFT-Based Auditory Spectrum With Application in Audio Classification. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 137-150.                     | 3.8 | 17        |
| 156 | Auditory-Based Spectral Amplitude Estimators for Speech Enhancement. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1614-1623.                                   | 3.8 | 43        |
| 157 | Multistage MMSE PIC Space-Time Receiver With Non-Mutually Exclusive Grouping. IEEE Transactions on Vehicular Technology, 2008, 57, 2070-2080.  | 3.9 | 1         |
| 158 | Crossing-point estimation for sampled random signals. Canadian Conference on Electrical and Computer Engineering, 2008, , .  | 0.0 | 0         |
| 159 | Further studies of a FFT-based auditory spectrum with application in audio classification. , 2008, , .   |     | 3         |
| 160 | Perceptually based speech enhancement using the weighted &#x03B2-SA estimator. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , . | 1.8 | 3         |
| 161 | Cooperative MIMO-beamforming for multiuser relay networks. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .                     | 1.8 | 25        |
| 162 | Subspace Blind MIMO-OFDM Channel Estimation with Short Averaging Periods: Performance Analysis. , 2008, , .  |     | 13        |

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|-----|--|-----|-----------|
| 163 | Linearly Constrained Adaptive Echo Cancellation for Discrete Multitone Systems. , 2007, , .  |     | 1         |
| 164 | One-Tap Equalizer for Perfect Reconstruction DFT Filter Bank Transceivers. , 2007, , .   |     | 3         |
| 165 | Robust Channel Feedback for Collaborative Uplink Beamforming. , 2007, , .  |     | 1         |
| 166 | Robust Transmit Beamforming for Collaborative MIMO-OFDM Systems. , 2007, , .   |     | 0         |
| 167 | Semi-Blind Adaptive Beamforming for Cyclostationary Signals: A Kalman Filtering Approach. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .  | 0.0 | 0         |
| 168 | Decentralized Collaborative Uplink Beamforming with Robustness Against Channel Mismatches. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , . | 0.0 | 1         |
| 169 | Further Analysis of the $\beta$ -Order MMSE STSA Estimator for Speech Enhancement. , 2007, , .   |     | 6         |
| 170 | An Improved Implementation for an Auditory-Inspired FFT Model with Application in Audio Classification. , 2007, , .  |     | 0         |
| 171 | Group-Based Space-Time Multiuser Detection with User Sharing. IEEE Transactions on Wireless Communications, 2007, 6, 2034-2039.  | 6.1 | 10        |
| 172 | A Simplified Early Auditory Model with Application in Speech/Music Classification. , 2006, , .   |     | 5         |
| 173 | A simplified early auditory model with application in audio classification. Canadian Journal of Electrical and Computer Engineering, 2006, 31, 185-189.                              | 1.5 | 0         |
| 174 | Group-Optimal Linear Space-Time Multiuser Detection. , 2006, , .   |     | 0         |
| 175 | SPC11-3: Group-Based Block Linear Successive Interference Cancellation For DS-CDMA. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .                                  | 0.0 | 2         |
| 176 | Group-Based Linear Parallel Interference Cancellation for DS-CDMA Systems. , 2006, , .   |     | 1         |
| 177 | A perceptual signal subspace approach for speech enhancement in colored noise. , 2002, , .   |     | 17        |