# Richard Heusdens

List of Publications by Year
in descending order

| 33 | 1,959 | 687363 | 713466 |
|----|-------|--------|--------|
| papers | citations | 13 | 21 |
| | | h-index | g-index |

| 33 | 33 | 33 | 1094 |
|----|----|----|------|
| all docs | docs citations | times ranked | citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | An Algorithm for Intelligibility Prediction of Time–Frequency Weighted Noisy Speech. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2125-2136. | 3.2 | 1,451 |
| 2 | Distributed Optimization Using the Primal-Dual Method of Multipliers. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 173-187. | 2.8 | 58 |
| 3 | Auto-localization in ad-hoc microphone arrays. , 2013, , . | | 49 |
| 4 | Microphone Subset Selection for MVDR Beamformer Based Noise Reduction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 550-563. | 5.8 | 43 |
| 5 | Relaxed Binaural LCMV Beamforming. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 137-152. | 5.8 | 40 |
| 6 | A Fast Method for High-Resolution Voiced/Unvoiced Detection and Glottal Closure/Opening Instant Estimation of Speech. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 316-328. | 5.8 | 30 |
| 7 | A Low-Cost Robust Distributed Linearly Constrained Beamformer for Wireless Acoustic Sensor Networks With Arbitrary Topology. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1434-1448. | 5.8 | 26 |
| 8 | Calculation of the Mean Strain of Smooth Non-Uniform Strain Fields Using Conventional FBG Sensors. Journal of Lightwave Technology, 2018, 36, 3716-3725. | 4.6 | 25 |
| 9 | Privacy-Preserving Distributed Optimization via Subspace Perturbation: A General Framework. IEEE Transactions on Signal Processing, 2020, 68, 5983-5996. | 5.3 | 22 |
| 10 | Rate-Distributed Spatial Filtering Based Noise Reduction in Wireless Acoustic Sensor Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 2015-2026. | 5.8 | 20 |
| 11 | Derivation and Analysis of the Primal-Dual Method of Multipliers Based on Monotone Operator Theory. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 334-347. | 2.8 | 19 |
| 12 | Improved multi-microphone noise reduction preserving binaural cues. , 2016, , . | | 17 |
| 13 | Privacy-Preserving Distributed Processing: Metrics, Bounds and Algorithms. IEEE Transactions on Information Forensics and Security, 2021, 16, 2090-2103. | 6.9 | 16 |
| 14 | Characterisation of Transverse Matrix Cracks in Composite Materials Using Fibre Bragg Grating Sensors. Journal of Lightwave Technology, 2019, 37, 4720-4727. | 4.6 | 15 |
| 15 | Relative Acoustic Transfer Function Estimation in Wireless Acoustic Sensor Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1507-1519. | 5.8 | 15 |
| 16 | Robust Joint Estimation of Multimicrophone Signal Model Parameters. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1136-1150. | 5.8 | 15 |
| 17 | A distributed algorithm for robust LCMV beamforming. , 2016, , . | | 14 |
| 18 | Distributed Rate-Constrained LCMV Beamforming. IEEE Signal Processing Letters, 2019, 26, 675-679. | 3.6 | 11 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | On the Distributed Method of Multipliers for Separable Convex Optimization Problems. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 495-510. | 2.8 | 10 |
| 20 | A Convex Approximation of the Relaxed Binaural Beamforming Optimization Problem. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 321-331. | 5.8 | 10 |
| 21 | Rate-Distributed Binaural LCMV Beamforming for Assistive Hearing in Wireless Acoustic Sensor Networks. , 2018, , . | | 9 |
| 22 | Asymmetric Coding for Rate-Constrained Noise Reduction in Binaural Hearing Aids. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 154-167. | 5.8 | 9 |
| 23 | Spatially Correct Rate-Constrained Noise Reduction for Binaural Hearing Aids in Wireless Acoustic Sensor Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2731-2742. | 5.8 | 8 |
| 24 | Ad hoc microphone array beamforming using the primal-dual method of multipliers. , 2016, , . | | 7 |
| 25 | Binaural beamforming using pre-determined relative acoustic transfer functions. , 2017, , . | | 7 |
| 26 | Rate-Constrained Noise Reduction in Wireless Acoustic Sensor Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1-12. | 5.8 | 6 |
| 27 | A Method for Determining the Length of FBG Sensors Accurately. IEEE Photonics Technology Letters, 2019, 31, 197-200. | 2.5 | 2 |
| 28 | Clock-Offset and Microphone Gain Mismatch Invariant Beamforming. , 2021, , . | | 2 |
| 29 | Analysis of FBG reflection spectra under anti-symmetrical strain distributions using the approximated transfer matrix model. , 2018, , . | | 1 |
| 30 | Analysis of the Side-lobes of FBG Reflection Spectra From Matrix Cracks in Composites. , 2018, , . | | 1 |
| 31 | Estimation of Sensor Array Signal Model Parameters Using Factor Analysis. , 2019, , . | | 1 |
| 32 | Localization Based on Enhanced Low Frequency Interaural Level Difference. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3025-3039. | 5.8 | 0 |
| 33 | A method for determining the position of FBG sensors accurately. , 2019, , . | | 0 |