## Youngchul Sung

## List of Publications by Year in descending order

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$10 \quad$ Imperfect C
11 Pilot Signal Design for Massive MIMO Systems: A Received Signal-To-Noise-Ratio-Based Approach. IEEE
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3.6 ..... 33RawPEACH: Multiband CSMA/CA-based cognitive radio networks. Journal of Communications and12 Networks, 2009, 11, 175-186.2.632Beam Tracking for Interference Alignment in Slowly Fading MIMO Interference Channels: APerturbation
1910-1926.5.314 Coordinated Beamforming With Relaxed Zero Forcing: The Sequential Orthogonal ProjectionCombining Method and Rate Control. IEEE Transactions on Signal Processing, 2013, 61, 3100-3112.5.329
15 Channel Estimation Techniques for RIS-Assisted Communication: Millimeter-Wave and Sub-THz Systems. ..... 3.4 ..... 27 IEEE Vehicular Technology Magazine, 2022, 17, 64-73.How Much Information Can One Get From a Wireless<i>Ad Hoc</i>Sensor Network Over a CorrelatedRandom Field?. IEEE Transactions on Information Theory, 2009, 55, 2827-2847.
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Sensor Configuration and Activation for Field Detection in Large Sensor Arrays. IEEE Transactions on Signal Processing, 2008, 56, 447-463.
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A least squares approach to joint beam design for interference alignment in multiuser interference channels. , 2009, , .23 An Efficient Algorithm for Zero-Forcing Coordinated Beamforming. IEEE Communications Letters,$4.1 \quad 17$24 Dual-Domain Adaptive Beamformer Under Linearly and Quadratically Constrained Minimum Variance.IEEE Transactions on Signal Processing, 2013, 61, 2874-2886.5.317
25 Beam Design and User Scheduling for Nonorthogonal Multiple Access With Multiple Antennas Based on Pareto Optimality. IEEE Transactions on Signal Processing, 2018, 66, 2876-2891.
31 Hybrid beamformer design for mmwave wideband multi-user MIMO-OFDM systems : (Invited paper). , 2017, , .11
Training Signal Design for Sparse Channel Estimation in Intelligent Reflecting Surface-Assisted ..... 9.2 ..... 11
33 A projection-based semi-blind channel estimation for long-code WCDMA. , 2002, , . ..... 10
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Pilot beam sequence design for channel estimation in millimeter-wave MIMO systems: A POMDP
framework. , 2015, , .
On the performance of randomly directional beamforming between line-of-sight and rich scattering
channels. ,2015, ,.

Adaptive beam tracking for interference alignment for multiuser time-varying MIMO interference channels. , 2010, , .

| 45 | How many users are needed for non-trivial performance of random beamforming in highly-directional mm-wave MIMO downlink?. , 2015, , . |  | 4 |
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| 46 | A High-Diversity Transceiver Design for MISO Broadcast Channels. IEEE Transactions on Wireless Communications, 2019, 18, 2591-2606. | 9.2 | 4 |
| 47 | Large deviations analysis for the detection of 2D hidden Gauss-Markov random fields using sensor networks. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , . | 1.8 | 3 |
| 48 | Information, energy and density for Ad Hoc sensor networks over correlated random fields: Large deviations analysis. , 2008, , . |  | 3 |
| 49 | Iterative algorithm for interference alignment in multiuser mimo interference channels. , 2010, , |  | 3 |

57 Asymptotic locally optimal detector for large-scale sensor networks under the Poisson regime. , 0, , . ..... 158 Multitone acoustic sensor network with mobile access: an experimental testbed. , 0, , .1
59 The Bahadur efficiency for energy detection of stationary Gaussian processes. , 2012, , . ..... 1
60 A Nonlinear Transceiver Architecture for Overloaded Multiuser MIMO Interference Channels. IEEEAn efficient parameterization for Pareto-optimal beamformers for $k$-user MIMO interference channels., 2013, , .

