

# Lie-Liang Yang

## List of Publications by Year in descending order

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285  
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citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Deep-Learning-Aided Packet Routing in Aeronautical <i>Ad Hoc</i> Networks Relying on Real Flight Data: From Single-Objective to Near-Pareto Multiobjective Optimization. IEEE Internet of Things Journal, 2022, 9, 4598-4614. | 8.7  | 12        |
| 2  | Carrier Phase Ranging for Indoor Positioning With 5G NR Signals. IEEE Internet of Things Journal, 2022, 9, 10908-10919.   | 8.7  | 55        |
| 3  | Reconfigurable Intelligent Surface Assisted Multi-Carrier Wireless Systems for Doubly Selective High-Mobility Rician Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 4023-4041.                                | 6.3  | 21        |
| 4  | Target-Barrier Coverage Improvement in an Insecticidal Lamps Internet of UAVs. IEEE Transactions on Vehicular Technology, 2022, 71, 4373-4382.  | 6.3  | 7         |
| 5  | Resource Allocation for URLLC Service in In-Band Full-Duplex-Based V2I Networks. IEEE Transactions on Communications, 2022, 70, 3266-3281.  | 7.8  | 4         |
| 6  | Unity-Rate Coding Improves the Iterative Detection Convergence of Autoencoder-Aided Communication Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 5037-5047.  | 6.3  | 2         |
| 7  | A Soft-Input Soft-Output Polar Decoding Algorithm for Turbo-Detection in MIMO-Aided 5G New Radio. IEEE Transactions on Vehicular Technology, 2022, 71, 6454-6468.   | 6.3  | 7         |
| 8  | Security-Oriented Polar Coding Based on Channel-Gain-Mapped Frozen Bits. IEEE Transactions on Wireless Communications, 2022, 21, 6584-6596.   | 9.2  | 4         |
| 9  | Turbo Detection Aided Autoencoder for Multicarrier Wireless Systems: Integrating Deep Learning Into Channel Coded Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 600-614.                    | 7.9  | 7         |
| 10 | Deep Learning Assisted Adaptive Index Modulation for mmWave Communications With Channel Estimation. IEEE Transactions on Vehicular Technology, 2022, 71, 9186-9201.   | 6.3  | 3         |
| 11 | Grouping Length Permutation Encapsulated Packets to Improve Spectral Efficiency. IEEE Communications Letters, 2022, 26, 2037-2041.  | 4.1  | 0         |
| 12 | High-Security Sequence Design for Differential Frequency Hopping Systems. IEEE Systems Journal, 2021, 15, 4895-4906.  | 4.6  | 2         |
| 13 | Physical-Layer Secret Key Generation via CQI-Mapped Spatial Modulation in Multi-Hop Wiretap Ad-Hoc Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 1322-1334.                                    | 6.9  | 19        |
| 14 | A Novel Transmission Policy for Intelligent Reflecting Surface Assisted Wireless Powered Sensor Networks. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1143-1158.  | 10.8 | 35        |
| 15 | Resource Allocation for Multiuser Molecular Communication Systems Oriented to the Internet of Medical Things. IEEE Internet of Things Journal, 2021, 8, 15939-15952.  | 8.7  | 13        |
| 16 | Minimum-Delay Routing for Integrated Aeronautical <i>Ad Hoc</i> Networks Relying on Real Flight Data in the North-Atlantic Region. IEEE Open Journal of Vehicular Technology, 2021, 2, 310-320.                               | 4.9  | 3         |
| 17 | Enhanced Molecular Type Permutation Shift Keying for Molecular Communication. IEEE Wireless Communications Letters, 2021, 10, 2722-2726.  | 5.0  | 5         |
| 18 | Distortion Reduction in Fractional Delay Filters. IEEE Signal Processing Letters, 2021, 28, 588-592.  | 3.6  | 6         |

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|----|---|-----|-----------|
| 19 | Millimeter-Wave Based Localization Using a Two-Stage Channel Estimation Relying on Few-Bit ADCs. IEEE Open Journal of the Communications Society, 2021, 2, 1736-1752.   | 6.9 | 6         |
| 20 | Physical Layer Security of Spatially Modulated Sparse-Code Multiple Access in Aeronautical Ad-hoc Networking. IEEE Transactions on Vehicular Technology, 2021, 70, 2436-2447.   | 6.3 | 17        |
| 21 | Permutation-Based Transmissions in Ultra-Reliable and Low-Latency Communications. IEEE Communications Letters, 2021, 25, 1024-1028.   | 4.1 | 9         |
| 22 | Security-Oriented Trellis Code Design for Spatial Modulation. IEEE Transactions on Wireless Communications, 2021, 20, 1875-1888.  | 9.2 | 8         |
| 23 | Priority-Aware Secure Precoding Based on Multi-Objective Symbol Error Ratio Optimization. IEEE Transactions on Communications, 2021, 69, 1912-1929.   | 7.8 | 0         |
| 24 | A Molecular Spatio-Temporal Modulation Scheme for MIMO Communications. , 2021, , .  |     | 3         |
| 25 | Performance Evaluation of Index Modulation with Single Subcarrier Activation. , 2021, , .   |     | 1         |
| 26 | Hybrid Iterative Detection and Decoding of Near-Instantaneously Adaptive Turbo-Coded Sparse Code Multiple Access. IEEE Transactions on Vehicular Technology, 2021, 70, 4682-4692.   | 6.3 | 1         |
| 27 | Soft-Output Successive Cancellation Stack Polar Decoder. IEEE Transactions on Vehicular Technology, 2021, 70, 6238-6243.  | 6.3 | 6         |
| 28 | Secrecy Throughput in Full-Duplex Multiuser MIMO Short-Packet Communications. IEEE Wireless Communications Letters, 2021, 10, 1339-1343.  | 5.0 | 17        |
| 29 | Resource Allocation for Max-Min Rate Fairness in Molecular Communication Systems. , 2021, , .   |     | 0         |
| 30 | Space-, Time- and Frequency-Domain Index Modulation for Next-Generation Wireless: A Unified Single-/Multi-Carrier and Single-/Multi-RF MIMO Framework. IEEE Transactions on Wireless Communications, 2021, 20, 3847-3864. | 9.2 | 7         |
| 31 | Improved Coverage and Connectivity via Weighted Node Deployment in Solar Insecticidal Lamp Internet of Things. IEEE Internet of Things Journal, 2021, 8, 10170-10186.   | 8.7 | 12        |
| 32 | Iterative Receiver Design for Polar-Coded SCMA Systems. IEEE Transactions on Communications, 2021, 69, 4235-4246.   | 7.8 | 13        |
| 33 | Space-Time Coded Generalized Spatial Modulation for Sparse Code Division Multiple Access. IEEE Transactions on Wireless Communications, 2021, 20, 5359-5372.  | 9.2 | 8         |
| 34 | Sparse or Dense: A Comparative Study of Code-Domain NOMA Systems. IEEE Transactions on Wireless Communications, 2021, 20, 4768-4780.  | 9.2 | 42        |
| 35 | Resource Allocation in Millimeter-Wave Multicarrier-Division Duplex Systems With Hybrid Beamforming. IEEE Transactions on Vehicular Technology, 2021, 70, 7921-7935.  | 6.3 | 5         |
| 36 | Approximate Message Passing Algorithms for Low Complexity OFDM-IM Detection. IEEE Transactions on Vehicular Technology, 2021, 70, 9607-9612.  | 6.3 | 6         |

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|----|---|------|-----------|
| 37 | Permutation-Based TCP and UDP Transmissions to Improve Goodput and Latency in the Internet of Things. IEEE Internet of Things Journal, 2021, 8, 14276-14286.                            | 8.7  | 11        |
| 38 | Gaussian Approximate Message Passing Detection of Orthogonal Time Frequency Space Modulation. IEEE Transactions on Vehicular Technology, 2021, 70, 10999-11004.                         | 6.3  | 30        |
| 39 | Molecular-Type Permutation Shift Keying in Molecular MIMO Communications for IoBNT. IEEE Internet of Things Journal, 2021, 8, 16023-16034.  | 8.7  | 8         |
| 40 | Opportunistic Bits in Short-Packet Communications: A Finite Blocklength Perspective. IEEE Transactions on Communications, 2021, , 1-1.  | 7.8  | 4         |
| 41 | Factor Graphs for Support Identification in Compressive Sensing Aided Wireless Sensor Networks. IEEE Sensors Journal, 2021, 21, 27195-27207.  | 4.7  | 1         |
| 42 | Low Complexity Detection for Spatial Modulation Aided Sparse Code Division Multiple Access. IEEE Transactions on Vehicular Technology, 2021, 70, 12858-12871.                           | 6.3  | 1         |
| 43 | Polar Codes and Their Quantum-Domain Counterparts. IEEE Communications Surveys and Tutorials, 2020, 22, 123-155.  | 39.4 | 25        |
| 44 | Spatial Modulated Multicarrier Sparse Code-Division Multiple Access. IEEE Transactions on Wireless Communications, 2020, 19, 610-623.   | 9.2  | 14        |
| 45 | Concurrent OFDM Demodulation and Turbo Decoding for Ultra Reliable Low Latency Communication. IEEE Transactions on Vehicular Technology, 2020, 69, 1281-1290.                           | 6.3  | 6         |
| 46 | A Rising Edge-Based Detection Algorithm for MIMO Molecular Communication. IEEE Wireless Communications Letters, 2020, 9, 523-527.   | 5.0  | 10        |
| 47 | The Development, Operation and Performance of the 5G Polar Codes. IEEE Communications Surveys and Tutorials, 2020, 22, 96-122.  | 39.4 | 42        |
| 48 | Joint User-Activity and Data Detection for Grant-Free Spatial-Modulated Multi-Carrier Non-Orthogonal Multiple Access. IEEE Transactions on Vehicular Technology, 2020, 69, 11673-11684. | 6.3  | 9         |
| 49 | Sparse Space-Time-Frequency-Domain Spreading for Large-Scale Non-Orthogonal Multiple Access. IEEE Transactions on Vehicular Technology, 2020, 69, 12327-12332.                          | 6.3  | 6         |
| 50 | Massive Distributed Antenna Systems: Channel Estimation and Signal Detection. IEEE Access, 2020, 8, 186055-186070.  | 4.2  | 0         |
| 51 | Deep-Learning-Aided Joint Channel Estimation and Data Detection for Spatial Modulation. IEEE Access, 2020, 8, 191910-191919.  | 4.2  | 20        |
| 52 | Machine Learning Assisted Adaptive Index Modulation for mmWave Communications. IEEE Open Journal of the Communications Society, 2020, 1, 1425-1441.                                     | 6.9  | 15        |
| 53 | Molecular Type Permutation Shift Keying for Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 160-164.                      | 2.1  | 18        |
| 54 | Generalized Molecular-Shift Keying (GMoSK): Principles and Performance Analysis. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 168-183.          | 2.1  | 25        |

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|----|---|------|-----------|
| 55 | Soft List Decoding of Polar Codes. IEEE Transactions on Vehicular Technology, 2020, 69, 13921-13926.  | 6.3  | 16        |
| 56 | Channel Estimation and User Activity Identification in Massive Grant-Free Multiple-Access. IEEE Open Journal of Vehicular Technology, 2020, 1, 296-316.   | 4.9  | 10        |
| 57 | Self-Interference Cancellation and Channel Estimation in Multicarrier-Division Duplex Systems With Hybrid Beamforming. IEEE Access, 2020, 8, 160653-160669.   | 4.2  | 14        |
| 58 | Reduced-Complexity Low-Latency Logarithmic Successive Cancellation Stack Polar Decoding for 5G New Radio and Its Software Implementation. IEEE Transactions on Vehicular Technology, 2020, 69, 12449-12458.           | 6.3  | 7         |
| 59 | Equalisation and performance of diffusive molecular communication systems with binary molecular shift keying modulation. IET Communications, 2020, 14, 549-555.   | 2.2  | 3         |
| 60 | Performance of diffusive molecular communication systems with binary molecular shift keying modulation. IET Communications, 2020, 14, 262-273.  | 2.2  | 0         |
| 61 | Channel correlation relied grouped spatial modulation for massive MIMO systems. IET Communications, 2020, 14, 1241-1250.  | 2.2  | 3         |
| 62 | Multicarrier Division Duplex Aided Millimeter Wave Communications. IEEE Access, 2019, 7, 100719-100732.   | 4.2  | 8         |
| 63 | Spatially Modulated Code-Division Multiple-Access for High-Connectivity Multiple Access. IEEE Transactions on Wireless Communications, 2019, 18, 4031-4046.   | 9.2  | 4         |
| 64 | Constant-Envelope Space-Time Shift Keying. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1387-1402.   | 10.8 | 11        |
| 65 | Subcarrier Subset Selection-Aided Transmit Precoding Achieves Full-Diversity in Index Modulation. IEEE Transactions on Vehicular Technology, 2019, 68, 11031-11041.   | 6.3  | 3         |
| 66 | Aeronautical Ad-Hoc Networking for the Internet-Above-the-Clouds. Proceedings of the IEEE, 2019, 107, 868-911.  | 21.3 | 132       |
| 67 | Spectral- and Energy-Efficiency of Multi-Pair Two-Way Massive MIMO Relay Systems Experiencing Channel Aging. IEEE Access, 2019, 7, 46014-46032.   | 4.2  | 10        |
| 68 | Differential-Detection Aided Large-Scale Generalized Spatial Modulation is Capable of Operating in High-Mobility Millimeter-Wave Channels. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1360-1374. | 10.8 | 26        |
| 69 | CRC-Aided Logarithmic Stack Decoding of Polar Codes for Ultra Reliable Low Latency Communication in 3GPP New Radio. IEEE Access, 2019, 7, 28559-28573.  | 4.2  | 21        |
| 70 | Primitive Polynomials for Iterative Recursive Soft Sequential Acquisition of Concatenated Sequences. IEEE Access, 2019, 7, 13882-13900.   | 4.2  | 7         |
| 71 | Spatial Modulation for Molecular Communication. IEEE Transactions on Nanobioscience, 2019, 18, 381-395.   | 3.3  | 45        |
| 72 | Arbitrarily Parallel Turbo Decoding for Ultra-Reliable Low Latency Communication in 3GPP LTE. IEEE Journal on Selected Areas in Communications, 2019, 37, 826-838.  | 14.0 | 15        |

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|----|---|------|-----------|
| 73 | Space Shift Keying for Molecular Communication: Theory and Experiment. , 2019, , .  |      | 16        |
| 74 | A Possibility: Beyond the Channel Capacity in the Low SNR Regime. , 2019, , .   |      | 0         |
| 75 | Performance Analysis of High Throughput MAP Decoder for Turbo Codes and Self Concatenated Convolutional Codes. IEEE Access, 2019, 7, 138079-138093.   | 4.2  | 7         |
| 76 | Sixty Years of Coherent Versus Non-Coherent Tradeoffs and the Road From 5G to Wireless Futures. IEEE Access, 2019, 7, 178246-178299.  | 4.2  | 49        |
| 77 | Transmit Antenna Subset Selection in Generalized Spatial Modulation Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 1979-1983.  | 6.3  | 13        |
| 78 | Survey of Turbo, LDPC, and Polar Decoder ASIC Implementations. IEEE Communications Surveys and Tutorials, 2019, 21, 2309-2333.  | 39.4 | 92        |
| 79 | Adaptive Coherent/Non-Coherent Single/Multiple-Antenna Aided Channel Coded Ground-to-Air Aeronautical Communication. IEEE Transactions on Communications, 2019, 67, 1099-1116.                                | 7.8  | 25        |
| 80 | A Finite Input Alphabet Perspective on the Rate-Energy Tradeoff in SWIPT Over Parallel Gaussian Channels. IEEE Journal on Selected Areas in Communications, 2019, 37, 48-60.                                  | 14.0 | 4         |
| 81 | Linear Precoded Index Modulation. IEEE Transactions on Communications, 2019, 67, 350-363.   | 7.8  | 10        |
| 82 | Joint Transmitter-Receiver Spatial Modulation. IEEE Access, 2018, 6, 6411-6423.   | 4.2  | 18        |
| 83 | Spatial Modulation Aided Sparse Code-Division Multiple Access. IEEE Transactions on Wireless Communications, 2018, 17, 1474-1487.   | 9.2  | 42        |
| 84 | Adaptive Coding and Modulation for Large-Scale Antenna Array-Based Aeronautical Communications in the Presence of Co-Channel Interference. IEEE Transactions on Wireless Communications, 2018, 17, 1343-1357. | 9.2  | 48        |
| 85 | Transmitter-Precoding-Aided Spatial Modulation Achieving Both Transmit and Receive Diversity. IEEE Transactions on Vehicular Technology, 2018, 67, 1375-1388.   | 6.3  | 33        |
| 86 | Non-Orthogonal Multiple Access: A Unified Perspective. IEEE Wireless Communications, 2018, 25, 10-16.   | 9.0  | 63        |
| 87 | Mapping-Variied Spatial Modulation for Physical Layer Security: Transmission Strategy and Secrecy Rate. IEEE Journal on Selected Areas in Communications, 2018, 36, 877-889.                                  | 14.0 | 44        |
| 88 | Secrecy Analysis of Generalized Space-Shift Keying Aided Visible Light Communication. IEEE Access, 2018, 6, 18310-18324.  | 4.2  | 24        |
| 89 | Modularity-Based Dynamic Clustering for Energy Efficient UAVs-Aided Communications. IEEE Wireless Communications Letters, 2018, 7, 728-731.   | 5.0  | 14        |
| 90 | Unary-Coded Dimming Control Improves ON-OFF Keying Visible Light Communication. IEEE Transactions on Communications, 2018, 66, 255-264.   | 7.8  | 23        |

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|-----|---|------|-----------|
| 91  | Conceiving Extrinsic Information Transfer Charts for Stochastic Low-Density Parity-Check Decoders. IEEE Access, 2018, 6, 55741-55753.   | 4.2  | 0         |
| 92  | Redundant Residue Number System Coded Diffusive Molecular Communications. , 2018, , .   |      | 0         |
| 93  | Dynamic DS-CDMA Aided by Successive Interference Cancellation for Massive Grant-Free Multiple-Access. , 2018, , .   |      | 1         |
| 94  | Intrusion Detection Based on $\epsilon$ -Coverage in Mobile Sensor Networks With Empowered Intruders. IEEE Transactions on Vehicular Technology, 2018, 67, 12109-12123.                                       | 6.3  | 22        |
| 95  | Performance Analysis of Secret Precoding-Aided Spatial Modulation With Finite-Alphabet Signaling. IEEE Access, 2018, 6, 29366-29381.  | 4.2  | 18        |
| 96  | Optical Jamming Enhances the Secrecy Performance of the Generalized Space-Shift-Keying-Aided Visible-Light Downlink. IEEE Transactions on Communications, 2018, 66, 4087-4102.                                | 7.8  | 38        |
| 97  | Regularized Zero-Forcing Precoding-Aided Adaptive Coding and Modulation for Large-Scale Antenna Array-Based Air-to-Air Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 2087-2103. | 14.0 | 23        |
| 98  | EXIT Chart Aided Convergence Analysis of Recursive Soft $m$ -Sequence Initial Acquisition in Nakagami- $m$ Fading Channels. IEEE Transactions on Vehicular Technology, 2018, 67, 4655-4660.                   | 6.3  | 6         |
| 99  | Effective Capacity of a Novel Spectrum-Band Selection Scheme in Spectrum-Sharing Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 2838-2843.  | 6.3  | 2         |
| 100 | Piecewise Companding Transform Assisted Optical-OFDM Systems for Indoor Visible Light Communications. IEEE Access, 2017, 5, 295-311.  | 4.2  | 14        |
| 101 | Optimal Power Allocation in Spatial Modulation Systems. IEEE Transactions on Wireless Communications, 2017, 16, 1646-1655.  | 9.2  | 14        |
| 102 | Guest Editorial Special Issue on 5G Wireless Systems With Massive MIMO. IEEE Systems Journal, 2017, 11, 4-6.  | 4.6  | 9         |
| 103 | Delay and Throughput Analysis of Cognitive Go-Back-N HARQ in the Face of Imperfect Sensing. IEEE Access, 2017, 5, 7454-7473.  | 4.2  | 12        |
| 104 | Energy-Efficient Cross-Layer Design of Wireless Mesh Networks for Content Sharing in Online Social Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 8495-8509.                                  | 6.3  | 28        |
| 105 | Blind Analog Interference Cancellation. IEEE Communications Letters, 2017, 21, 1867-1870.   | 4.1  | 12        |
| 106 | Discrete Multi-Tone Digital Subscriber Loop Performance in the Face of Impulsive Noise. IEEE Access, 2017, 5, 10478-10495.  | 4.2  | 18        |
| 107 | Carrier Frequency Offset Estimation in Uplink OFDMA Systems: An Approach Relying on Sparse Recovery. IEEE Transactions on Vehicular Technology, 2017, 66, 9592-9597.  | 6.3  | 18        |
| 108 | Joint Wireless Positioning and Emitter Identification in DVB-T Single Frequency Networks. IEEE Transactions on Broadcasting, 2017, 63, 577-582.   | 3.2  | 19        |

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| 109 | Flexible iterative receiver architecture for wireless sensor networks: a joint source and channel coding design example. IET Wireless Sensor Systems, 2017, 7, 27-34.                                | 1.7 | 2         |
| 110 | A High-Throughput FPGA Architecture for Joint Source and Channel Decoding. IEEE Access, 2017, 5, 2921-2944.  | 4.2 | 7         |
| 111 | A Flexible FPGA-Based Quasi-Cyclic LDPC Decoder. IEEE Access, 2017, 5, 20965-20984.  | 4.2 | 17        |
| 112 | Taking Drones to the Next Level: Cooperative Distributed Unmanned-Aerial-Vehicular Networks for Small and Mini Drones. IEEE Vehicular Technology Magazine, 2017, 12, 73-82.                          | 3.4 | 343       |
| 113 | Secrecy sum rate maximization in NOMA systems with wireless information and power transfer. , 2017, , .  |     | 20        |
| 114 | A Fair Resource Allocation Algorithm for Cooperative Multicast Aided Content Distribution. , 2017, , .   |     | 1         |
| 115 | Secure Spatial Modulation With a Full-Duplex Receiver. IEEE Wireless Communications Letters, 2017, 6, 838-841.   | 5.0 | 46        |
| 116 | LR based pre-coding aided spatial modulation with sub-optimal detection for V2X communications. , 2017, , .  |     | 2         |
| 117 | Error Performance Analysis of Diffusive Molecular Communication Systems With On-Off Keying Modulation. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 224-238. | 2.1 | 41        |
| 118 | Spectral-efficiency comparison of different multiple-access schemes under a generalized framework. , 2017, , .   |     | 3         |
| 119 | Spectral-efficiency of multicarrier sparse-mapping non-orthogonal multiple-access systems: Downlink. , 2017, , .   |     | 0         |
| 120 | Multi-Pair Bidirectional Relaying with Full-Duplex Massive MIMO Experiencing Channel Aging. , 2017, , .  |     | 2         |
| 121 | Performance of Cognitive Stop-and-Wait Hybrid Automatic Repeat Request in the Face of Imperfect Sensing. IEEE Access, 2016, 4, 5489-5508.  | 4.2 | 25        |
| 122 | Performance of Cognitive Selective-Repeat Hybrid Automatic Repeat Request. IEEE Access, 2016, 4, 9828-9846.  | 4.2 | 9         |
| 123 | A flexible software defined radio-based UHF RFID reader based on the USRP and LabView. , 2016, , .   |     | 1         |
| 124 | Innovation in the undergraduate microelectronics programmes at the University of Southampton. , 2016, , .  |     | 3         |
| 125 | Throughput and Delay Analysis of Cognitive Go-Back-N Hybrid Automatic Repeat reQuest Using Discrete-Time Markov Modelling. IEEE Access, 2016, 4, 9659-9680.  | 4.2 | 8         |
| 126 | Optimal Spatial-Domain Design for Spatial Modulation Capacity Maximization. IEEE Communications Letters, 2016, 20, 1092-1095.  | 4.1 | 30        |



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| 127 | Novel Intercell Interference Mitigation Algorithms for Multicell OFDMA Systems with Limited Base Station Cooperation. IEEE Transactions on Vehicular Technology, 2016, , 1-1.                           | 6.3 | 2         |
| 128 | Learning-Aided Unary Error Correction Codes for Non-Stationary and Unknown Sources. IEEE Access, 2016, 4, 2408-2428.  | 4.2 | 4         |
| 129 | Improving the Tolerance of Stochastic LDPC Decoders to Overclocking-Induced Timing Errors: A Tutorial and a Design Example. IEEE Access, 2016, 4, 1607-1629.  | 4.2 | 6         |
| 130 | Performance analysis of orthogonal frequency division multiplexing systems in dispersive indoor power line channels inflicting asynchronous impulsive noise. IET Communications, 2016, 10, 453-461.     | 2.2 | 9         |
| 131 | Buffer-aided relaying for the multi-user uplink: outage analysis and power allocation. IET Communications, 2016, 10, 936-944.   | 2.2 | 4         |
| 132 | Exponential Golomb and Rice Error Correction Codes for Generalized Near-Capacity Joint Source and Channel Coding. IEEE Access, 2016, 4, 7154-7175.  | 4.2 | 6         |
| 133 | Implementation of a Fully-Parallel Turbo Decoder on a General-Purpose Graphics Processing Unit. IEEE Access, 2016, 4, 5624-5639.  | 4.2 | 8         |
| 134 | Enhancing microelectronics education with large-student projects: Using the example of the University of Southampton Small Satellite. , 2016, , .   |     | 1         |
| 135 | Design of digital testbeds for undergraduate microelectronics teaching. , 2016, , .   |     | 1         |
| 136 | Performance of Cognitive Hybrid Automatic Repeat reQuest: Go-Back-N. , 2016, , .  |     | 6         |
| 137 | Performance Analysis of Non-Linear Generalized Pre-Coding Aided Spatial Modulation. IEEE Transactions on Wireless Communications, 2016, 15, 6731-6741.  | 9.2 | 18        |
| 138 | Fully-Parallel Quantum Turbo Decoder. IEEE Access, 2016, 4, 6073-6085.  | 4.2 | 4         |
| 139 | Compressed Sensing Improves the Performance of Subcarrier Index-Modulation-Assisted OFDM. IEEE Access, 2016, 4, 7859-7873.  | 4.2 | 61        |
| 140 | A Scalable Turbo Decoding Algorithm for High-Throughput Network-on-Chip Implementation. IEEE Access, 2016, 4, 9880-9894.  | 4.2 | 5         |
| 141 | Diffusion-based molecular communications: Inter-symbol interference cancellation and system performance. , 2016, , .  |     | 9         |
| 142 | Spatial Modulation Exploited in Non-Reciprocal Two-Way Relay Channels: Efficient Protocols and Capacity Analysis. IEEE Transactions on Communications, 2016, 64, 2821-2834.                             | 7.8 | 16        |
| 143 | Compressed Impairment Sensing-Assisted and Interleaved-Double-FFT-Aided Modulation Improves Broadband Power Line Communications Subjected to Asynchronous Impulsive Noise. IEEE Access, 2016, 4, 81-96. | 4.2 | 17        |
| 144 | Bidirectional Worst Subchannel Avoiding Versus Best Subchannel Seeking Subcarrier-Allocation in Downlink OFDMA Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 7160-7172.                 | 6.3 | 6         |

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| 145 | Stochastic Computing Improves the Timing-Error Tolerance and Latency of Turbo Decoders: Design Guidelines and Tradeoffs. IEEE Access, 2016, 4, 1008-1038.              | 4.2  | 14        |
| 146 | Delay Analysis of Social Group Multicast-Aided Content Dissemination in Cellular System. IEEE Transactions on Communications, 2016, 64, 1660-1673.                     | 7.8  | 20        |
| 147 | Transmitter Precoding-Aided Spatial Modulation for Secrecy Communications. IEEE Transactions on Vehicular Technology, 2016, 65, 467-471.                               | 6.3  | 72        |
| 148 | Secure Wireless Transmission Based on Precoding-Aided Spatial Modulation. , 2015, , .  |      | 17        |
| 149 | Fully Parallel Turbo Equalization for Wireless Communications. IEEE Access, 2015, 3, 2652-2664.  | 4.2  | 4         |
| 150 | Extrinsic Information Transfer Charts for Characterizing the Iterative Decoding Convergence of Fully Parallel Turbo Decoders. IEEE Access, 2015, 3, 2100-2110.         | 4.2  | 59        |
| 151 | Irregular Trellis for the Near-Capacity Unary Error Correction Coding of Symbol Values From an Infinite Set. IEEE Transactions on Communications, 2015, 63, 5073-5088. | 7.8  | 9         |
| 152 | Energy Pattern Aided Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2015, 33, 1492-1504.                      | 14.0 | 40        |
| 153 | Error Probability and Capacity Analysis of Generalised Pre-Coding Aided Spatial Modulation. IEEE Transactions on Wireless Communications, 2015, 14, 364-375.           | 9.2  | 89        |
| 154 | Bit-by-Bit Iterative Decoding Expedites the Convergence of Repeat Accumulate Decoders. IEEE Transactions on Communications, 2015, 63, 1952-1962.                       | 7.8  | 0         |
| 155 | Cross-Layer Aided Energy-Efficient Routing Design for Ad Hoc Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 1214-1238.                                 | 39.4 | 30        |
| 156 | Bridging the Social and Wireless Networking Divide: Information Dissemination in Integrated Cellular and Opportunistic Networks. IEEE Access, 2015, 3, 1809-1848.      | 4.2  | 34        |
| 157 | Angle Offset-Assisted Positioning of Railway Vehicles in Tunnel Environments. , 2015, , .  |      | 4         |
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