

Francis C M Lau

List of Publications by Year in descending order

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248
papers

4,494
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101543

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133252

59
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250
all docs

250
docs citations

250
times ranked

2981
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A network perspective of the stock market. <i>Journal of Empirical Finance</i> , 2010, 17, 659-667. | 1.8 | 299 |
| 2 | Chaos-Based Digital Communication Systems. <i>Signals and Communication Technology</i> , 2003, , . | 0.5 | 253 |
| 3 | Performance of Differential Chaos-Shift-Keying Digital Communication Systems Over a Multipath Fading Channel With Delay Spread. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2004, 51, 680-684. | 2.2 | 172 |
| 4 | An efficient and secure medical image protection scheme based on chaotic maps. <i>Computers in Biology and Medicine</i> , 2013, 43, 1000-1010. | 7.0 | 150 |
| 5 | A Survey on Protograph LDPC Codes and Their Applications. <i>IEEE Communications Surveys and Tutorials</i> , 2015, 17, 1989-2016. | 39.4 | 130 |
| 6 | Outage-Limit-Approaching Channel Coding for Future Wireless Communications: Root-Protograph Low-Density Parity-Check Codes. <i>IEEE Vehicular Technology Magazine</i> , 2019, 14, 85-93. | 3.4 | 128 |
| 7 | Decode-and-Forward Two-Way Relaying with Network Coding and Opportunistic Relay Selection. <i>IEEE Transactions on Communications</i> , 2010, 58, 3070-3076. | 7.8 | 116 |
| 8 | A Delay-Aware Data Collection Network Structure for Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2011, 11, 699-710. | 4.7 | 113 |
| 9 | A Survey on DCSK-Based Communication Systems and Their Application to UWB Scenarios. <i>IEEE Communications Surveys and Tutorials</i> , 2016, 18, 1804-1837. | 39.4 | 110 |
| 10 | Multilevel codeâ€šshifted differentialâ€šchaosâ€šshiftâ€škeying system. <i>IET Communications</i> , 2016, 10, 1189-1195. | 2.2 | 97 |
| 11 | APPLYING RESONANT PARAMETRIC PERTURBATION TO CONTROL CHAOS IN THE BUCK DC/DC CONVERTER WITH PHASE SHIFT AND FREQUENCY MISMATCH CONSIDERATIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 3459-3471. | 1.7 | 76 |
| 12 | Analysis of Communication Network Performance From a Complex Network Perspective. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013, 60, 3303-3316. | 5.4 | 72 |
| 13 | One Analog STBC-DCSK Transmission Scheme not Requiring Channel State Information. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013, 60, 1027-1037. | 5.4 | 72 |
| 14 | Permutation-based DCSK and multiple-access DCSK systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2003, 50, 733-742. | 0.1 | 71 |
| 15 | Exact Analytical Bit Error Rates for Multiple Access Chaos-Based Communication Systems. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2004, 51, 473-481. | 2.2 | 66 |
| 16 | Generalized correlation-delay-shift-keying scheme for noncoherent chaos-based communication systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006, 53, 712-721. | 0.1 | 64 |
| 17 | Performance analysis for MIMO systems using zero forcing detector over fading channels. <i>IET Communications</i> , 2006, 153, 74. | 1.0 | 62 |
| 18 | A Clustering Algorithm for Wireless Sensor Networks Based on Social Insect Colonies. <i>IEEE Sensors Journal</i> , 2011, 11, 711-721. | 4.7 | 61 |

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| 19 | Exploiting Full-Duplex Two-Way Relay Cooperative Non-Orthogonal Multiple Access. IEEE Transactions on Communications, 2019, 67, 2716-2729. | 7.8 | 61 |
| 20 | A multiple-access technique for differential chaos-shift keying. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 96-104. | 0.1 | 54 |
| 21 | Design and Optimization of Differential Chaos Shift Keying Scheme With Code Index Modulation. IEEE Transactions on Communications, 2018, 66, 1970-1980. | 7.8 | 54 |
| 22 | Constructing Short-Length Irregular LDPC Codes with Low Error Floor. IEEE Transactions on Communications, 2010, 58, 2823-2834. | 7.8 | 53 |
| 23 | Analysis of power control and its imperfections in CDMA cellular systems. IEEE Transactions on Vehicular Technology, 1999, 48, 1706-1717. | 6.3 | 49 |
| 24 | Asymptotic Analysis of Opportunistic Relaying Protocols. IEEE Transactions on Wireless Communications, 2009, 8, 3915-3920. | 9.2 | 49 |
| 25 | Design of Protograph LDPC Codes for Partial Response Channels. IEEE Transactions on Communications, 2012, 60, 2809-2819. | 7.8 | 49 |
| 26 | Design Guidelines of Low-Density Parity-Check Codes for Magnetic Recording Systems. IEEE Communications Surveys and Tutorials, 2018, 20, 1574-1606. | 39.4 | 49 |
| 27 | Analysis of metro network performance from a complex network perspective. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 553-563. | 2.6 | 49 |
| 28 | Diversity order for amplify-and-forward dual-hop systems with fixed-gain relay under Nakagami fading channels. IEEE Transactions on Wireless Communications, 2010, 9, 92-98. | 9.2 | 47 |
| 29 | A Square-Constellation-Based M^A -Ary DCSK Communication System. IEEE Access, 2016, 4, 6295-6303. | 4.2 | 47 |
| 30 | Joint Optimization of Protograph LDPC Code Pair for Joint Source and Channel Coding. IEEE Transactions on Communications, 2018, 66, 3255-3267. | 7.8 | 47 |
| 31 | Pricing Mobile Data Offloading: A Distributed Market Framework. IEEE Transactions on Wireless Communications, 2016, 15, 913-927. | 9.2 | 46 |
| 32 | An Energy-Aware Scheduling Scheme for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 3427-3444. | 6.3 | 44 |
| 33 | An approach to calculating the bit-error rate of a coherent chaos-shift-keying digital communication system under a noisy multiuser environment. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 210-223. | 0.1 | 43 |
| 34 | A Multiple Access Scheme for Chaos-Based Digital Communication Systems Utilizing Transmitted Reference. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 1868-1878. | 0.1 | 43 |
| 35 | Irregular-Mapped Protograph LDPC-Coded Modulation: A Bandwidth-Efficient Solution for 6G-Enabled Mobile Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 2060-2073. | 8.0 | 42 |
| 36 | Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. IEEE Signal Processing Letters, 2009, 16, 237-240. | 3.6 | 39 |

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|----|--|-----|-----------|
| 37 | A 2.0 Gb/s Throughput Decoder for QC-LDPC Convolutional Codes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1857-1869. | 5.4 | 37 |
| 38 | A class of QC-LDPC codes with low encoding complexity and good error performance. IEEE Communications Letters, 2010, 14, 169-171. | 4.1 | 34 |
| 39 | Two incremental relaying protocols for cooperative networks. IET Communications, 2008, 2, 1272. | 2.2 | 33 |
| 40 | Coexistence of Chaos-Based and Conventional Digital Communication Systems of Equal Bit Rate. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 391-408. | 0.1 | 31 |
| 41 | High-SNR Analysis of Opportunistic Relaying Based on the Maximum Harmonic Mean Selection Criterion. IEEE Signal Processing Letters, 2010, 17, 719-722. | 3.6 | 31 |
| 42 | A 3.0 Gb/s Throughput Hardware-Efficient Decoder for Cyclically-Coupled QC-LDPC Codes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 134-145. | 5.4 | 31 |
| 43 | A layered QC-LDPC decoder architecture for high speed communication system. , 2012, , . | | 30 |
| 44 | Full-Duplex Relaying Cognitive Radio Network With Cooperative Nonorthogonal Multiple Access. IEEE Systems Journal, 2019, 13, 3897-3908. | 4.6 | 29 |
| 45 | Analysis of bit error rates for multiple access cs-k and dcs-k communication systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 702-707. | 0.1 | 28 |
| 46 | Rate-Compatible Root-Protograph LDPC Codes for Quasi-Static Fading Relay Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 2741-2747. | 6.3 | 27 |
| 47 | Concept of Node Usage Probability From Complex Networks and Its Applications to Communication Network Design. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1195-1204. | 5.4 | 25 |
| 48 | A parallel-routing network for reliability inferences of single-parity-check decoder. , 2015, , . | | 24 |
| 49 | Optimizing Performance of Communication Networks: An Application of Network Science. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 95-99. | 3.0 | 24 |
| 50 | Analysis and Optimization of Tail-Biting Spatially Coupled Protograph LDPC Codes for BICM-ID Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 390-404. | 6.3 | 23 |
| 51 | Theory and Application of Software Defined Electronics: Design Concepts for the Next Generation of Telecommunications and Measurement Systems. IEEE Circuits and Systems Magazine, 2012, 12, 8-34. | 2.3 | 22 |
| 52 | Accelerating FPGA Prototyping through Predictive Model-Based HLS Design Space Exploration. , 2019, , . | | 22 |
| 53 | Anti-jamming performance of chaotic digital communication systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1486-1494. | 0.1 | 21 |
| 54 | Complex-Network Modeling of a Call Network. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 416-429. | 5.4 | 21 |

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| 55 | Performance analysis of protograph-based low-density parity-check codes with spatial diversity. IET Communications, 2012, 6, 2941-2948. | 2.2 | 21 |
| 56 | Implementation of Decoders for LDPC Block Codes and LDPC Convolutional Codes Based on GPUs. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 663-672. | 5.6 | 21 |
| 57 | Performance Analysis of Cooperative Non-Orthogonal Multiple Access Based on Spectrum Sensing. IEEE Transactions on Vehicular Technology, 2019, 68, 6855-6866. | 6.3 | 21 |
| 58 | Fixed-Point Implementation of Convolutional Neural Networks for Image Classification. , 2018, , . | | 20 |
| 59 | Semi-Flocking-Controlled Mobile Sensor Networks for Dynamic Area Coverage and Multiple Target Tracking. IEEE Sensors Journal, 2018, 18, 8883-8892. | 4.7 | 20 |
| 60 | Root-Protograph-Based BICM-ID: A Reliable and Efficient Transmission Solution for Block-Fading Channels. IEEE Transactions on Communications, 2019, 67, 5921-5939. | 7.8 | 20 |
| 61 | Data storage using peptide sequences. Nature Communications, 2021, 12, 4242. | 12.8 | 20 |
| 62 | Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. IEEE Signal Processing Letters, 2009, 16, 113-116. | 3.6 | 19 |
| 63 | Diophantine Approach to Blind Interference Alignment of Homogeneous K-User 2x1 MISO Broadcast Channels. IEEE Journal on Selected Areas in Communications, 2013, 31, 2141-2153. | 14.0 | 19 |
| 64 | OPTIMUM CORRELATOR-TYPE RECEIVER DESIGN FOR CSK COMMUNICATION SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1029-1038. | 1.7 | 18 |
| 65 | Permutation-Based M-ary Chaotic-Sequence Spread-Spectrum Communication Systems. Circuits, Systems, and Signal Processing, 2003, 22, 567-577. | 2.0 | 17 |
| 66 | On Optimal Detection of Noncoherent Chaos-Shift-Keying Signals in a Noisy Environment. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 1587-1597. | 1.7 | 17 |
| 67 | Resource Allocation for Multiuser OFDMA Hybrid Full/Half-Duplex Relaying Systems With Direct Links. IEEE Transactions on Vehicular Technology, 2016, 65, 6101-6118. | 6.3 | 17 |
| 68 | Use of UWB Impulse Radio Technology in In-Car Communications: Power Limits and Optimization. IEEE Transactions on Vehicular Technology, 2017, 66, 6037-6049. | 6.3 | 17 |
| 69 | Return-map-based approaches for noncoherent detection in chaotic digital communications. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1495-1499. | 0.1 | 16 |
| 70 | Scale-free user-network approach to telephone network traffic analysis. Physical Review E, 2005, 72, 026116. | 2.1 | 16 |
| 71 | Analysis and Improvement of Error-Floor Performance for JSCC Scheme Based on Double Protograph LDPC Codes. IEEE Transactions on Vehicular Technology, 2020, 69, 14316-14329. | 6.3 | 16 |
| 72 | Analysis of telephone network traffic based on a complex user network. Physica A: Statistical Mechanics and Its Applications, 2006, 368, 583-594. | 2.6 | 14 |

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| 73 | Joint Shuffled Scheduling Decoding Algorithm for DP-LDPC Codes-Based JSCC Systems. IEEE Wireless Communications Letters, 2019, 8, 1696-1699. | 5.0 | 14 |
| 74 | Joint Carrier-Code Index Modulation Aided M-ary Differential Chaos Shift Keying System. IEEE Transactions on Vehicular Technology, 2020, 69, 15486-15499. | 6.3 | 14 |
| 75 | Novel SIR-estimation-based power control in a CDMA mobile radio system under multipath environment. IEEE Transactions on Vehicular Technology, 2001, 50, 314-320. | 6.3 | 13 |
| 76 | Achievable-SIR-based predictive closed-loop power control in a CDMA mobile system. IEEE Transactions on Vehicular Technology, 2002, 51, 720-728. | 6.3 | 13 |
| 77 | Performance of chaos-based communication systems under the influence of coexisting conventional spread-spectrum systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 1475-1481. | 0.1 | 13 |
| 78 | Analytical performance of M-ary time-hopping orthogonal PPM UWB systems under multiple access interference. IEEE Transactions on Communications, 2008, 56, 1780-1784. | 7.8 | 13 |
| 79 | A Bio-Inspired Scheduling Scheme for Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , . | 0.4 | 13 |
| 80 | Application of complex-network theories to the design of short-length low-density-parity-check codes. IET Communications, 2009, 3, 1569. | 2.2 | 13 |
| 81 | Multichannel Opportunistic Access by Overhearing Primary ARQ Messages. IEEE Transactions on Vehicular Technology, 2013, 62, 3486-3492. | 6.3 | 13 |
| 82 | Improved online fountain codes. IET Communications, 2018, 12, 2297-2304. | 2.2 | 13 |
| 83 | A RETURN MAP REGRESSION APPROACH FOR NONCOHERENT DETECTION IN CHAOTIC DIGITAL COMMUNICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 685-690. | 1.7 | 12 |
| 84 | Asymptotic Analysis of Opportunistic Relaying Based on the Max-Generalized-Mean Selection Criterion. IEEE Transactions on Wireless Communications, 2011, 10, 1050-1057. | 9.2 | 12 |
| 85 | Minimum-Polytope-Based Linear Programming Decoder for LDPC Codes via ADMM Approach. IEEE Wireless Communications Letters, 2019, 8, 1032-1035. | 5.0 | 12 |
| 86 | Construction of GC-Balanced DNA With Deletion/Insertion/Mutation Error Correction for DNA Storage System. IEEE Access, 2020, 8, 140972-140980. | 4.2 | 12 |
| 87 | A fast searching method for the construction of QC-LDPC codes with large girth. , 2012, , . | | 11 |
| 88 | Decoding Generalized Joint Channel Coding and Physical Network Coding in the LLR Domain. IEEE Signal Processing Letters, 2013, 20, 121-124. | 3.6 | 11 |
| 89 | APPROXIMATE-OPTIMAL DETECTOR FOR CHAOS COMMUNICATION SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 1329-1335. | 1.7 | 10 |
| 90 | OSCILLATION AND PERIOD DOUBLING IN TCP/RED SYSTEM: ANALYSIS AND VERIFICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1459-1475. | 1.7 | 10 |

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| 91 | Performance Bounds of Opportunistic Cooperative Communications With CSI-Assisted Amplify-and-Forward Relaying and MRC Reception. IEEE Transactions on Vehicular Technology, 2010, 59, 2159-2165. | 6.3 | 10 |
| 92 | Performance Analysis for MIMO Systems using Zero Forcing Detector over Rice Fading Channel. , 0, , . | | 9 |
| 93 | Evaluation of the Extremely Low Block Error Rate of Irregular LDPC Codes. , 2009, , . | | 9 |
| 94 | Mitigating Doppler effects on physical-layer network coding in VANET. , 2015, , . | | 9 |
| 95 | The Feasibility of Mobile Physical-Layer Network Coding with BPSK Modulation. IEEE Transactions on Vehicular Technology, 2016, , 1-1. | 6.3 | 9 |
| 96 | Operating frequency improvement on FPGA implementation of a pipeline large-FFT processor. , 2017, , . | | 9 |
| 97 | Design and Analysis of Punctured Terminated Spatially Coupled Protograph LDPC Codes With Small Coupling Lengths. IEEE Access, 2018, 6, 36723-36731. | 4.2 | 9 |
| 98 | Path-Planning-Enabled Semiflocking Control for Multitarget Monitoring in Mobile Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 4778-4787. | 11.3 | 9 |
| 99 | A Novel Approach to Analyzing V-BLAST MIMO Systems with Two Transmit Antennas. IEEE Transactions on Wireless Communications, 2007, 6, 1591-1595. | 9.2 | 8 |
| 100 | Optimisation of low-density parity-check codes with deterministic unequal error protection properties. IET Communications, 2011, 5, 1560-1565. | 2.2 | 8 |
| 101 | SCALE-FREE LUBY TRANSFORM CODES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250094. | 1.7 | 8 |
| 102 | Performance of cooperative spectrum sensing over fading channels with low signal-to-noise ratio. IET Communications, 2012, 6, 1988-1999. | 2.2 | 8 |
| 103 | Rapid prototyping of multi-mode QC-LDPC decoder for 802.11n/ac standard. , 2016, , . | | 8 |
| 104 | Parameter Identification of Chaotic Systems by a Novel Dual Particle Swarm Optimization. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650024. | 1.7 | 8 |
| 105 | The Design of Vertical RS-CRC and LDPC Code for Ship-Based Satellite Communications On-the-Move. IEEE Access, 2019, 7, 44977-44986. | 4.2 | 8 |
| 106 | Protograph-Based LDPC Hadamard Codes. IEEE Transactions on Communications, 2021, 69, 4998-5013. | 7.8 | 8 |
| 107 | Throughput analysis of B-networks. IEEE Transactions on Computers, 1998, 47, 482-485. | 3.4 | 7 |
| 108 | Analytical approach of V-BLAST performance with two transmit antennas. , 0, , . | | 7 |

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| 109 | Performance evaluation of irregular low-density parity-check codes at high signal-to-noise ratio. IET Communications, 2011, 5, 1587-1596. | 2.2 | 7 |
| 110 | On the Diversity Order of a General Cooperative Relaying Communication System. Wireless Personal Communications, 2014, 77, 605-631. | 2.7 | 7 |
| 111 | Effective routing algorithms based on node usage probability from a complex network perspective. , 2014, , . | | 7 |
| 112 | Maxâ€“Min Weighted Downlink SINR With Uplink SINR Constraints for Full-Duplex MIMO Systems. IEEE Transactions on Signal Processing, 2017, 65, 3277-3292. | 5.3 | 7 |
| 113 | Energy-Efficient Semi-Flocking Control of Mobile Sensor Networks on Rough Terrains. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 622-626. | 3.0 | 7 |
| 114 | Generalization of Waveform Communications: The Fourier Analyzer Approach. Circuits, Systems, and Signal Processing, 2005, 24, 451-474. | 2.0 | 6 |
| 115 | Performance Limit of Chaotic Digital Waveform Communication Systems: Approach of Maximizing a Posteriori Probability. Circuits, Systems, and Signal Processing, 2005, 24, 639-655. | 2.0 | 6 |
| 116 | Feasibility of UWB radio: Impulse radio versus chaos-based approach. , 2010, , . | | 6 |
| 117 | Efficient Decoding of QC-LDPC Codes Using GPUs. Lecture Notes in Computer Science, 2011, , 294-305. | 1.3 | 6 |
| 118 | Improved Min-Sum Decoding for 2-D Intersymbol Interference Channels. IEEE Transactions on Magnetism, 2014, 50, 1-4. | 2.1 | 6 |
| 119 | A high throughput Gaussian noise generator. , 2014, , . | | 6 |
| 120 | Comments on "Overview of cellular CDMA. IEEE Transactions on Vehicular Technology, 1998, 47, 369-371. | 6.3 | 5 |
| 121 | Intelligent closed-loop power control algorithm in CDMA mobile radio system. Electronics Letters, 1999, 35, 785. | 1.0 | 5 |
| 122 | Performance of Chaos-Based Digital Communication Systems in the Presence of a Pulsed-Noise Jammer. Circuits, Systems, and Signal Processing, 2004, 23, 169-194. | 2.0 | 5 |
| 123 | Reconstruction of chaotic signals with application to channel equalization in chaos-based communication systems. International Journal of Communication Systems, 2004, 17, 217-232. | 2.5 | 5 |
| 124 | AN APPROACH TO CALCULATE THE BIT ERROR RATES OF MULTIPLE ACCESS CHAOTIC-SEQUENCE SPREAD-SPECTRUM COMMUNICATION SYSTEMS EMPLOYING MULTI-USER DETECTORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 183-206. | 1.7 | 5 |
| 125 | Effect of clustering in a complex user network on the telephone traffic. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 745-753. | 2.6 | 5 |
| 126 | Parallel decoding of LDPC convolutional codes using OpenMP and GPU. , 2012, , . | | 5 |

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| 127 | Outage Performance and Cooperative Diversity Under Amplify and Forward Relaying in Cognitive Radio Networks. <i>Wireless Personal Communications</i> , 2013, 69, 891-914. | 2.7 | 5 |
| 128 | On using the cyclically-coupled QC-LDPC codes in future SSDs. , 2016, , . | | 5 |
| 129 | A consistent heuristic for efficient path planning on mobility maps. , 2017, , . | | 5 |
| 130 | A Turbo-Hadamard Encoder/Decoder System with Hundreds of Mbps Throughput. , 2018, , . | | 5 |
| 131 | Joint Source-Channel Codes Based on a Single Protograph. , 2021, , . | | 5 |
| 132 | A chaos tracker applied to non-coherent detection in chaos-based digital communication systems. , 0, , . | | 4 |
| 133 | PERFORMANCE OF FREQUENCY-MODULATED DIFFERENTIAL-CHAOS-SHIFT-KEYING COMMUNICATION SYSTEM OVER MULTIPATH FADING CHANNELS WITH DELAY SPREAD. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 4027-4033. | 1.7 | 4 |
| 134 | Modeling the Telephone Call Network. , 2007, , . | | 4 |
| 135 | Study of bifurcation behavior of two-dimensional turbo product code decoders. <i>Chaos, Solitons and Fractals</i> , 2008, 36, 500-511. | 5.1 | 4 |
| 136 | A scheduling scheme for wireless sensor networks based on social insect colonies. <i>IET Communications</i> , 2009, 3, 714. | 2.2 | 4 |
| 137 | BP-Maxwell Decoding Algorithm for LDPC Codes over AWGN Channels. , 2010, , . | | 4 |
| 138 | Energy Consumption in Wireless Sensor Networks under Varying Sensor Node Traffic. , 2010, , . | | 4 |
| 139 | Influential factors for decimetre level positioning using ultra wide band technology. <i>Survey Review</i> , 2012, 44, 37-44. | 1.2 | 4 |
| 140 | Finite-length extrinsic information transfer analysis and design of protograph low-density parity-check codes for ultra-high-density magnetic recording channels. <i>IET Communications</i> , 2016, 10, 1303-1311. | 2.2 | 4 |
| 141 | Path Planning for Semi-Flocking-Controlled Mobile Sensor Networks on Mobility Maps. , 2018, , . | | 4 |
| 142 | Page-Based Dynamic Partitioning Scheduling for LDPC Decoding in MLC NAND Flash Memory. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019, 66, 2082-2086. | 3.0 | 4 |
| 143 | <i>Temnothorax albipennis</i> migration inspired semi-flocking control for mobile sensor networks. <i>Chaos</i> , 2019, 29, 063113. | 2.5 | 4 |
| 144 | Adaptive 2-D Scheduling-Based Nonbinary Majority-Logic Decoding for NAND Flash Memory. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 1349-1353. | 3.0 | 4 |

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| 145 | An Ultimate-Shannon-Limit-Approaching Gbps Throughput Encoder/Decoder System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2169-2173. | 3.0 | 4 |
| 146 | Protograph-based LDPC-Hadamard Codes. , 2020, , . | | 4 |
| 147 | Layered Decoding for Protograph-Based Low-Density Parity-Check Hadamard Codes. IEEE Communications Letters, 2021, 25, 1776-1780. | 4.1 | 4 |
| 148 | On Massive IoT Connectivity with Temporally-Correlated User Activity. , 2021, , . | | 4 |
| 149 | Improvements in the waveform relaxation method applied to transmission lines. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 1201-1203. | 4.6 | 3 |
| 150 | Waveform relaxation analysis of lossy coupled transmission line sets in cascade. IET Circuits, Devices and Systems, 1995, 142, 373. | 0.6 | 3 |
| 151 | Predictive closed-loop power control in CDMA mobile systems. Electronics Letters, 2001, 37, 52. | 1.0 | 3 |
| 152 | PERFORMANCE ANALYSIS OF MULTIPLE ACCESS CHAOTIC-SEQUENCE SPREAD-SPECTRUM COMMUNICATION SYSTEMS USING PARALLEL INTERFERENCE CANCELLATION RECEIVERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3633-3646. | 1.7 | 3 |
| 153 | STUDY OF BIFURCATION BEHAVIOR OF LDPC DECODERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 3435-3449. | 1.7 | 3 |
| 154 | Performance Analysis of Serial Cooperative Communications with Decode-and-Forward Relaying and Blind-EGC Reception under Nakagami Fading Channels. IEEE Transactions on Wireless Communications, 2009, 8, 5455-5460. | 9.2 | 3 |
| 155 | Application of Complex Networks to Coding. IEEE Circuits and Systems Magazine, 2010, 10, 38-47. | 2.3 | 3 |
| 156 | Complex network approach to communication network performance analysis. , 2012, , . | | 3 |
| 157 | Generalized LDPC code with single-parity-check product constraints at super check nodes. , 2012, , . | | 3 |
| 158 | Application of universal software defined PXI platform for the performance evaluation of FM-DCSK communications system. , 2013, , . | | 3 |
| 159 | A distributed market framework for mobile data offloading. , 2015, , . | | 3 |
| 160 | An architecture-algorithm co-design of artificial intelligence for Trax player. , 2015, , . | | 3 |
| 161 | SSCSMA-based random relay selection scheme for large-scale relay networks. Computer Communications, 2018, 127, 13-19. | 5.1 | 3 |
| 162 | Hardware Design of Concatenated Zigzag Hadamard Encoder/Decoder System With High Throughput. IEEE Access, 2020, 8, 165298-165306. | 4.2 | 3 |

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| 163 | Implementation of FM-DCSK modulation scheme on USRP platform based on complex envelope. IEICE Proceeding Series, 2014, 1, 797-800. | 0.0 | 3 |
| 164 | Transient analysis of lossy coupled transmission lines in a lossy medium using the waveform relaxation method. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 692-697. | 4.6 | 2 |
| 165 | Study of nonlinear dynamics of LDPC decoders. , 0, , . | | 2 |
| 166 | Closed-form expressions for symbol error probability of orthogonal space-time block codes over Rician-Nakagami channels. IET Communications, 2007, 1, 655. | 2.2 | 2 |
| 167 | Construction of short-length LDPC codes with low error floor. , 2008, , . | | 2 |
| 168 | Simulation and implementation of dual-polarization TD-SCDMA smart antennas. , 2009, , . | | 2 |
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