Francis C M Lau

List of Publications by Year
in descending order

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248 papers	4,494 citations	101543 36 h-index	133252 59 g-index
250 all docs	250 docs citations	250 times ranked	2981 citing authors

#	Article	IF	Citations
1	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
2	Duplicated zigzag decodable fountain codes with the unequal error protection property. Computer Communications, 2022, 185, 66-78.	5.1	1
3	Design and Optimization of Protograph LDPC-Coded Multipulse PPM Systems Over Poisson Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 9586-9601.	6.3	2
4	Smooth Deep Reinforcement Learning for Power Control for Spectrum Sharing in Cognitive Radios. IEEE Transactions on Wireless Communications, 2022, 21, 10621-10632.	9.2	1
5	Relay selection for spatially random fullâ€duplex cooperative nonâ€orthogonal multiple access networks. IET Communications, 2021, 15, 1060-1075.	2.2	0
6	Layered Decoding for Protograph-Based Low-Density Parity-Check Hadamard Codes. IEEE Communications Letters, 2021, 25, 1776-1780.	4.1	4
7	Data storage using peptide sequences. Nature Communications, 2021, 12, 4242.	12.8	20
8	On Massive IoT Connectivity with Temporally-Correlated User Activity. , 2021, , .		4
9	Protograph-Based LDPC Hadamard Codes. IEEE Transactions on Communications, 2021, 69, 4998-5013.	7.8	8
10	Joint Source-Channel Codes Based on a Single Protograph. , 2021, , .		5
11	Adaptive 2-D Scheduling-Based Nonbinary Majority-Logic Decoding for NAND Flash Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1349-1353.	3.0	4
12	Path-Planning-Enabled Semiflocking Control for Multitarget Monitoring in Mobile Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 4778-4787.	11.3	9
13	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
14	Construction of GC-Balanced DNA With Deletion/Insertion/Mutation Error Correction for DNA Storage System. IEEE Access, 2020, 8, 140972-140980.	4.2	12
15	Hardware Design of Concatenated Zigzag Hadamard Encoder/Decoder System With High Throughput. IEEE Access, 2020, 8, 165298-165306.	4.2	3
16	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
17	Predictive Compositional Method to Design and Reoptimize Complex Behavioral Dataflows. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 2615-2627.	2.7	1
18	Protograph-based LDPC-Hadamard Codes. , 2020, , .		4

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19	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
20	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
21	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
22	Full-Duplex Relaying Cognitive Radio Network With Cooperative Nonorthogonal Multiple Access. IEEE Systems Journal, 2019, 13, 3897-3908.	4.6	29
23	Joint Shuffled Scheduling Decoding Algorithm for DP-LDPC Codes-Based JSCC Systems. IEEE Wireless Communications Letters, 2019, 8, 1696-1699.	5.0	14
24	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
25	Semi-Flocking-Controlled Mobile Sensor Networks for Tracking Targets with Different Priorities. , 2019, , .		2
26	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
27	Page-Based Dynamic Partitioning Scheduling for LDPC Decoding in MLC NAND Flash Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 2082-2086.	3.0	4
28	Temnothorax albipennis migration inspired semi-flocking control for mobile sensor networks. Chaos, 2019, 29, 063113.	2.5	4
29	Performance Analysis of Cooperative Non-Orthogonal Multiple Access Based on Spectrum Sensing. IEEE Transactions on Vehicular Technology, 2019, 68, 6855-6866.	6.3	21
30	Accelerating FPGA Prototyping through Predictive Model-Based HLS Design Space Exploration. , 2019, , .		22
31	Outage-Limit-Approaching Channel Coding for Future Wireless Communications: Root-Protograph Low-Density Parity-Check Codes. IEEE Vehicular Technology Magazine, 2019, 14, 85-93.	3.4	128
32	Minimum-Polytope-Based Linear Programming Decoder for LDPC Codes via ADMM Approach. IEEE Wireless Communications Letters, 2019, 8, 1032-1035.	5.0	12
33	Codebook Design Optimization for Sparsified Distribution Converter in Davey-Mackay Watermark Codes over Channels with Synchronization Errors. , 2019, , .		0
34	Exploiting Full-Duplex Two-Way Relay Cooperative Non-Orthogonal Multiple Access. IEEE Transactions on Communications, 2019, 67, 2716-2729.	7.8	61
35	Design and Optimization of Differential Chaos Shift Keying Scheme With Code Index Modulation. IEEE Transactions on Communications, 2018, 66, 1970-1980.	7.8	54
36	Tree-Permutation-Matrix Based LDPC Codes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1019-1023.	3.0	2

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37	Design Guidelines of Low-Density Parity-Check Codes for Magnetic Recording Systems. IEEE Communications Surveys and Tutorials, 2018, 20, 1574-1606.	39.4	49
38	An Approach to Evaluating the Number of Closed Paths in an All-One Base Matrix. IEEE Access, 2018, 6, 22332-22340.	4.2	1
39	Joint Optimization of Protograph LDPC Code Pair for Joint Source and Channel Coding. IEEE Transactions on Communications, 2018, 66, 3255-3267.	7.8	47
40	Analysis of metro network performance from a complex network perspective. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 553-563.	2.6	49
41	Generalized Systematic Comma-Free Code. IEEE Access, 2018, 6, 56800-56814.	4.2	0
42	Path Planning for Semi-Flocking-Controlled Mobile Sensor Networks on Mobility Maps. , 2018, , .		4
43	A Turbo-Hadamard Encoder/Decoder System with Hundreds of Mbps Throughput. , 2018, , .		5
44	Improved online fountain codes. IET Communications, 2018, 12, 2297-2304.	2.2	13
45	Fixed-Point Implementation of Convolutional Neural Networks for Image Classification. , 2018, , .		20
46	SSCSMA-based random relay selection scheme for large-scale relay networks. Computer Communications, 2018, 127, 13-19.	5.1	3
47	Design and Analysis of Punctured Terminated Spatially Coupled Protograph LDPC Codes With Small Coupling Lengths. IEEE Access, 2018, 6, 36723-36731.	4.2	9
48	Semi-Flocking-Controlled Mobile Sensor Networks for Dynamic Area Coverage and Multiple Target Tracking. IEEE Sensors Journal, 2018, 18, 8883-8892.	4.7	20
49	Investigation and Optimization of Pin Multiplexing in High-Level Synthesis. , 2018, , .		2
50	Basics of communications using chaos. , 2018, , 104-142.		0
51	Energy efficiency optimisation in fullâ€duplex relayâ€‰systems. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2926.	3.9	1
52	Fullâ€duplex OFDMA multiâ€user cellular systems: resource allocation and user pairing. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3005.	3.9	2
53	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
54	Random-permutation-matrix-based cyclically-coupled LDPC codes. , 2017, , .		2

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55	Operating frequency improvement on FPGA implementation of a pipeline large-FFT processor. , 2017, , .		9
56	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
57	A consistent heuristic for efficient path planning on mobility maps. , 2017, , .		5
58	Design of a high-throughput low-latency extended golay decoder. , 2017, , .		1
59	Design and error performance of punctured hadamard codes. , 2017, , .		1
60	Reducing the bit-mapping search space of a bit-interleaved polar-coded modulation system. , 2017, , .		1
61	A generalized systematic comma free code. , 2017, , .		1
62	On using the cyclically-coupled QC-LDPC codes in future SSDs. , 2016, , .		5
63	Multilevel codeâ€shifted differentialâ€chaosâ€shiftâ€keying system. IET Communications, 2016, 10, 1189-1195.	2.2	97
64	A Survey on DCSK-Based Communication Systems and Their Application to UWB Scenarios. IEEE Communications Surveys and Tutorials, 2016, 18, 1804-1837.	39.4	110
65	Log-average-SNR ratio and cooperative spectrum sensing. Journal of Communications and Networks, 2016, 18, 311-319.	2.6	1
66	The Feasibility of Mobile Physical-Layer Network Coding with BPSK Modulation. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	9
67	A Square-Constellation-Based M -Ary DCSK Communication System. IEEE Access, 2016, 4, 6295-6303.	4.2	47
68	Finiteâ€length extrinsic information transfer analysis and design of protograph lowâ€density parityâ€check codes for ultraâ€highâ€density magnetic recording channels. IET Communications, 2016, 10, 1303-1311.	2.2	4
69	Rate-Compatible Root-Protograph LDPC Codes for Quasi-Static Fading Relay Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 2741-2747.	6.3	27
70	Rapid prototyping of multi-mode QC-LDPC decoder for 802.11n/ac standard. , 2016, , .		8
71	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
72	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

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73	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
74	Pricing Mobile Data Offloading: A Distributed Market Framework. IEEE Transactions on Wireless Communications, 2016, 15, 913-927.	9.2	46
75	Novel types of cyclically-coupled quasi-cyclic LDPC block codes. , 2016, , .		2
76	A distributed market framework for mobile data offloading. , 2015, , .		3
77	Average Transmit Power Gain of MIMO Fading Channels Over SISO AWGN Channels. Wireless Personal Communications, 2015, 84, 719-728.	2.7	0
78	Pairedâ€relayâ€selection schemes for twoâ€way relaying with network coding. IET Communications, 2015, 9, 888-896.	2.2	2
79	A Survey on Protograph LDPC Codes and Their Applications. IEEE Communications Surveys and Tutorials, 2015, 17, 1989-2016.	39.4	130
80	A parallel-routing network for reliability inferences of single-parity-check decoder. , 2015, , .		24
81	Mitigating Doppler effects on physical-layer network coding in VANET. , 2015, , .		9
82	An architecture-algorithm co-design of artificial intelligence for Trax player. , 2015, , .		3
83	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
84	Generation of Luby Transform Codes with Low Redundancy. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550072.	1.7	1
85	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
86	Relay cooperation schemes for the multiple access relay channel: Compute-and-forward and successive interference cancellation. , 2014, , .		2
87	D-GLDPC codes with 3-D single parity-check product codes as super check nodes. , 2014, , .		1
88	Improved Min-Sum Decoding for 2-D Intersymbol Interference Channels. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
89	A high throughput Gaussian noise generator. , 2014, , .		6
90	Exact split information function for SPC. , 2014, , .		0

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91	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
92	On the Diversity Order of a General Cooperative Relaying Communication System. Wireless Personal Communications, 2014, 77, 605-631.	2.7	7
93	Effective routing algorithms based on node usage probability from a complex network perspective. , 2014, , .		7
94	Implementation of FM-DCSK modulation scheme on USRP platform based on complex envelope. IEICE Proceeding Series, 2014, 1, 797-800.	0.0	3
95	Performance Comparison of UWB Chirp IR TR and UWB FM-DCSK TR Systems Implemented with Autocorrelation Receiver. IEICE Proceeding Series, 2014, 1, 793-796.	0.0	0
96	Multichannel Opportunistic Access by Overhearing Primary ARQ Messages. IEEE Transactions on Vehicular Technology, 2013, 62, 3486-3492.	6.3	13
97	Outage Performance and Cooperative Diversity Under Amplify and Forward Relaying in Cognitive Radio Networks. Wireless Personal Communications, 2013, 69, 891-914.	2.7	5
98	Analysis of Communication Network Performance From a Complex Network Perspective. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 3303-3316.	5.4	72
99	One Analog STBC-DCSK Transmission Scheme not Requiring Channel State Information. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1027-1037.	5.4	72
100	A class of doubly-generalized LDPC codes. , 2013, , .		2
101	Decoding Generalized Joint Channel Coding and Physical Network Coding in the LLR Domain. IEEE Signal Processing Letters, 2013, 20, 121-124.	3.6	11
102	Turn your baseband Matlab simulator into a fully functional, 2.4-GHz, operating FM-DCSK transceiver using SDE platform. , 2013, , .		1
103	From simulations to field tests: PXI-based software defined wireless platform for performance evaluation of FM-DCSK. , 2013, , .		0
104	Application of universal software defined PXI platform for the performance evaluation of FM-DCSK communications system. , 2013, , .		3
105	A fast lowâ€density parityâ€check code simulator based on compressed parityâ€check matrices. Wireless Communications and Mobile Computing, 2013, 13, 663-670.	1.2	1
106	An efficient and secure medical image protection scheme based on chaotic maps. Computers in Biology and Medicine, 2013, 43, 1000-1010.	7.0	150
107	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
108	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

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109	Selection of spatially-distributed relays for two-way relaying with network coding. , 2013, , .		0
110	An adaptive routing algorithm for load balancing in communication networks. , 2013, , .		1
111	Performance analysis of protograph-based low-density parity-check codes with spatial diversity. IET Communications, 2012, 6, 2941-2948.	2.2	21
112	A layered QC-LDPC decoder architecture for high speed communication system. , 2012, , .		30
113	Improving the coverage of ultra wideband impulse radio by pulse compression. , 2012, , .		0
114	SCALE-FREE LUBY TRANSFORM CODES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250094.	1.7	8
115	Effect of assortativity on traffic performance in scale-free networks. , 2012, , .		1
116	Complex network approach to communication network performance analysis. , 2012, , .		3
117	Influential factors for decimetre level positioning using ultra wide band technology. Survey Review, 2012, 44, 37-44.	1.2	4
118	Design of Protograph LDPC Codes for Partial Response Channels. IEEE Transactions on Communications, 2012, 60, 2809-2819.	7.8	49
119	Generalized LDPC code with single-parity-check product constraints at super check nodes. , 2012, , .		3
120	Concept of Node Usage Probability for Analysis and Design of Communication Networks. , 2012, , .		0
121	Analysis of the Topological Characteristics of a Protein-Protein Interaction Network. , 2012, , .		1
122	A fast searching method for the construction of QC-LDPC codes with large girth. , 2012, , .		11
123	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
124	Parallel decoding of LDPC convolutional codes using OpenMP and GPU. , 2012, , .		5
125	Simulation of LDPC convolutional decoders with CPU and GPU. , 2012, , .		2
126	Performance of cooperative spectrum sensing over fading channels with low signal-to-noise ratio. IET Communications, 2012, 6, 1988-1999.	2.2	8

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127	Optimisation of throughput in cognitive radio networks: an analysis at the data link layer. IET Communications, 2012, 6, 1.	2.2	1
128	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
129	Future Design of Channel Codes: A Complex Network Perspective. , 2011, , .		0
130	Construction of high-rate QC-LDPC codes. , 2011, , .		2
131	A Delay-Aware Data Collection Network Structure for Wireless Sensor Networks. IEEE Sensors Journal, 2011, 11, 699-710.	4.7	113
132	Efficient Decoding of QC-LDPC Codes Using GPUs. Lecture Notes in Computer Science, 2011, , 294-305.	1.3	6
133	Increasing the local girth of irregular low-density parity-check codes based on degree-spectrum analysis. IET Communications, 2011, 5, 1506-1511.	2.2	2
134	Optimisation of low-density parity-check codes with deterministic unequal error protection properties. IET Communications, 2011, 5, 1560-1565.	2.2	8
135	Performance evaluation of irregular low-density parity-check codes at high signal-to-noise ratio. IET Communications, 2011, 5, 1587-1596.	2.2	7
136	A Clustering Algorithm for Wireless Sensor Networks Based on Social Insect Colonies. IEEE Sensors Journal, 2011, 11, 711-721.	4.7	61
137	IMPACT OF TOPOLOGY ON THE MAXIMUM MULTICAST THROUGHPUT IN COMMUNICATION NETWORKS WITH NETWORK CODING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2741-2748.	1.7	0
138	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
139	An Energy-Aware Scheduling Scheme for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 3427-3444.	6.3	44
140	Constructing Short-Length Irregular LDPC Codes with Low Error Floor. IEEE Transactions on Communications, 2010, 58, 2823-2834.	7.8	53
141	Decode-and-Forward Two-Way Relaying with Network Coding and Opportunistic Relay Selection. IEEE Transactions on Communications, 2010, 58, 3070-3076.	7.8	116
142	Derivation of circuit specification for the UWB impulse radio transceivers. , 2010, , .		2
143	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
144	BP-Maxwell Decoding Algorithm for LDPC Codes over AWGN Channels. , 2010, , .		4

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145	Performance improvement of autocorrelation detector used in UWB impulse radio. , 2010, , .		0
146	Feasibility of UWB radio: Impulse radio versus chaos-based approach. , 2010, , .		6
147	On the design of low complexity decoding (LCD) network codes. , 2010, , .		1
148	Gated threshold compensated noncoherent PPM receiver for UWB impulse radio. , 2010, , .		0
149	Constructing high-rate scale-free LDPC codes. , 2010, , .		0
150	Multiple-Stream Code-Multiplexed Transmitted-Reference Ultra-Wideband Systems. , 2010, , .		1
151	The phase-shifting network design of electronically-steered smart antennas for TD-SCDMA systems. , 2010, , .		0
152	Application of Complex Networks to Coding. IEEE Circuits and Systems Magazine, 2010, 10, 38-47.	2.3	3
153	Energy Consumption in Wireless Sensor Networks under Varying Sensor Node Traffic. , 2010, , .		4
154	A network perspective of the stock market. Journal of Empirical Finance, 2010, 17, 659-667.	1.8	299
155	Spectrum Sensing Gain Analysis in Cooperative Cognitive Radio Networks. , 2010, , .		1
156	A class of QC-LDPC codes with low encoding complexity and good error performance. IEEE Communications Letters, 2010, 14, 169-171.	4.1	34
157	Q-ary LDPC decoder with euclidean-distance-based sorting criterion. IEEE Communications Letters, 2010, 14, 444-446.	4.1	2
158	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
159	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. IEEE Signal Processing Letters, 2009, 16, 113-116.	3.6	19
160	Outage Performance of Cooperative Communication Systems Using Opportunistic Relaying and Selection Combining Receiver. IEEE Signal Processing Letters, 2009, 16, 237-240.	3.6	39
161	Simulation and implementation of a single-polarization smart antenna for TD-SCDMA system. , 2009, , .		1
162	A precoding scheme with generation crossing for network coding. , 2009, , .		0

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163	Accelerated Q-Ary Low-Density Parity-Check Codes Decoding with Message Selection. , 2009, , .		0
164	Complex-Network Modeling of a Call Network. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 416-429.	5.4	21
165	Modeling telephone call networks with group structure from a complex network perspective. , 2009, , .		0
166	Differentiating trapping sets with the same label [w; u. , 2009, , .		0
167	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
168	Simulation and implementation of dual-polarization TD-SCDMA smart antennas. , 2009, , .		2
169	Asymptotic Analysis of Opportunistic Relaying Protocols. IEEE Transactions on Wireless Communications, 2009, 8, 3915-3920.	9.2	49
170	Evaluation of the Extremely Low Block Error Rate of Irregular LDPC Codes. , 2009, , .		9
171	Improving the noise performance of energy detector based UWB systems by optimizing the receiver parameters. , 2009, , .		2
172	Performance improvement of UWB autocorrelation receivers by minimizing the energy capture time. , 2009, , .		0
173	A scheduling scheme for wireless sensor networks based on social insect colonies. IET Communications, 2009, 3, 714.	2.2	4
174	Error rate and diversity order of multinode cooperative communications in dissimilar Nakagami fading channels. IET Communications, 2009, 3, 1843.	2.2	2
175	Application of complex-network theories to the design of short-length low-density-parity-check codes. IET Communications, 2009, 3, 1569.	2.2	13
176	Network coding for resilient peer-to-peer networks. , 2009, , .		0
177	Observing Stock Market Fluctuation in Networks of Stocks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 2099-2108.	0.3	2
178	Study of bifurcation behavior of two-dimensional turbo product code decoders. Chaos, Solitons and Fractals, 2008, 36, 500-511.	5.1	4
179	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
180	Two incremental relaying protocols for cooperative networks. IET Communications, 2008, 2, 1272.	2.2	33

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181	A Bio-Inspired Scheduling Scheme for Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
182	Impacts of UWB Interference on Selected Radio Systems used by the Government. , 2008, , .		1
183	Passband Simulations of Interference Impacts in the Presence of Ultra Wideband and Narrowband Systems. International Conference on Advanced Communication Technology, 2008, , .	0.0	0
184	Traffic analysis of a mobile cellular system based on a scale-free user network and a power-law-distributed mobility model. , 2008, , .		0
185	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
186	Construction of short-length LDPC codes with low error floor. , 2008, , .		2
187	An efficient data collecting network structure in wireless sensor networks. , 2008, , .		0
188	Cross-layer design scheme for multihop communications. Electronics Letters, 2007, 43, 762.	1.0	0
189	Modeling the Telephone Call Network. , 2007, , .		4
190	Analytical Performance of M-ary TH-PPM UWB Systems with Multiple Users. , 2007, , .		1
191	Closed-form expressions for symbol error probability of orthogonal spaceâ€“time block codes over Nakagamiâ€“Rician channels. IET Communications, 2007, 1, 655.	2.2	2
192	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
193	Generalized correlation-delay-shift-keying scheme for noncoherent chaos-based communication systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 712-721.	0.1	64
194	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
195	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
196	Performance analysis for MIMO systems using zero forcing detector over fading channels. IET Communications, 2006, 153, 74.	1.0	62
197	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
198	Generalization of Waveform Communications: The Fourier Analyzer Approach. Circuits, Systems, and Signal Processing, 2005, 24, 451-474.	2.0	6

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199	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
200	Scale-free user-network approach to telephone network traffic analysis. Physical Review E, 2005, 72, 026116.	2.1	16
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