Emanuele Viterbo

List of Publications by Year
in descending order

218 **papers**	7,168 **citations**

159585

30 **h-index**	77 **g-index**

69250

239 **all docs**	239 **docs citations**	239 **times ranked**	2472 **citing authors**

#	Article	IF	Citations
1	A universal lattice code decoder for fading channels. IEEE Transactions on Information Theory, 1999, 45, 1639-1642.	2.4	1,258
2	Signal space diversity: a power- and bandwidth-efficient diversity technique for the Rayleigh fading channel. IEEE Transactions on Information Theory, 1998, 44, 1453-1467.	2.4	790
3	The Golden Code: A<tex>$2,times,2$</tex>Full-Rate Space–Time Code With Nonvanishing Determinants. IEEE Transactions on Information Theory, 2005, 51, 1432-1436.	2.4	648
4	Interference Cancellation and Iterative Detection for Orthogonal Time Frequency Space Modulation. IEEE Transactions on Wireless Communications, 2018, 17, 6501-6515.	9.2	486
5	Perfect Space–Time Block Codes. IEEE Transactions on Information Theory, 2006, 52, 3885-3902.	2.4	369
6	Practical Pulse-Shaping Waveforms for Reduced-Cyclic-Prefix OTFS. IEEE Transactions on Vehicular Technology, 2019, 68, 957-961.	6.3	262
7	Good lattice constellations for both Rayleigh fading and Gaussian channels. IEEE Transactions on Information Theory, 1996, 42, 502-518.	2.4	246
8	Flip-OFDM for Unipolar Communication Systems. IEEE Transactions on Communications, 2012, 60, 3726-3733.	7.8	192
9	On Fast-Decodable Space–Time Block Codes. IEEE Transactions on Information Theory, 2009, 55, 524-530.	2.4	162
10	New Algebraic Constructions of Rotated<tex>$ mmb Z^n$</tex>-Lattice Constellations for the Rayleigh Fading Channel. IEEE Transactions on Information Theory, 2004, 50, 702-714.	2.4	124
11	Low Complexity Iterative Rake Decision Feedback Equalizer for Zero-Padded OTFS Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 15606-15622.	6.3	115
12	OTFS Performance on Static Multipath Channels. IEEE Wireless Communications Letters, 2019, 8, 745-748.	5.0	97
13	Flip-OFDM for optical wireless communications. , 2011, , .		89
14	Algebraic Number Theory and Code Design for Rayleigh Fading Channels. Foundations and Trends in Communications and Information Theory, 2004, 1, 333-416.	3.1	83
15	Low-complexity iterative detection for orthogonal time frequency space modulation. , 2018, , .		77
16	Effective Diversity of OTFS Modulation. IEEE Wireless Communications Letters, 2020, 9, 249-253.	5.0	76
17	On the Detection of Frequency-Spectra-Based Chipless RFID Using UWB Impulsed Interrogation. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 4187-4197.	4.6	72
18	Orthogonal Time Frequency Space (OTFS) Modulation Based Radar System. , 2019, , .		64

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19	MIMO Precoding With X- and Y-Codes. IEEE Transactions on Information Theory, 2011, 57, 3542-3566.	2.4	58
20	Performance of component interleaved signal sets for fading channels. Electronics Letters, 1996, 32, 1170.	1.0	54
21	Integer-Forcing MIMO Linear Receivers Based on Lattice Reduction. IEEE Transactions on Wireless Communications, 2013, 12, 4905-4915.	9.2	52
22	Polarization-Adjusted Convolutional (PAC) Codes: Sequential Decoding vs List Decoding. IEEE Transactions on Vehicular Technology, 2021, 70, 1434-1447.	6.3	48
23	Efficient Algorithms for Systematic Polar Encoding. IEEE Communications Letters, 2016, 20, 17-20.	4.1	47
24	Cyclic Division Algebras: A Tool for Space-Time Coding. Foundations and Trends in Communications and Information Theory, 2007, 4, 1-95.	3.1	46
25	Turbo code at 0.03 dB from capacity limit. , 0, , .		43
26	Practical Secrecy using Artificial Noise. IEEE Communications Letters, 2013, 17, 1483-1486.	4.1	43
27	Low Complexity Precoding and Detection in Multi-User Massive MIMO OTFS Downlink. IEEE Transactions on Vehicular Technology, 2021, 70, 4389-4405.	6.3	42
28	Precoding by Pairing Subchannels to Increase MIMO Capacity With Discrete Input Alphabets. IEEE Transactions on Information Theory, 2011, 57, 4156-4169.	2.4	40
29	Artificial Noise Revisited. IEEE Transactions on Information Theory, 2015, 61, 3901-3911.	2.4	39
30	Computing the Voronoi cell of a lattice: the diamond-cutting algorithm. IEEE Transactions on Information Theory, 1996, 42, 161-171.	2.4	38
31	Performance of Linear Field Reconstruction Techniques With Noise and Uncertain Sensor Locations. IEEE Transactions on Signal Processing, 2008, 56, 3535-3547.	5.3	38
32	Optimal Placement of Wireless Nodes for Maximizing Path Lifetime. IEEE Communications Letters, 2008, 12, 362-364.	4.1	36
33	Golden Space–Time Trellis Coded Modulation. IEEE Transactions on Information Theory, 2007, 53, 1689-1705.	2.4	35
34	Embedded Delay-Doppler Channel Estimation for Orthogonal Time Frequency Space Modulation. , 2018, , .		35
35	Upper bound on the frame error probability of terminated trellis codes. IEEE Communications Letters, 1998, 2, 2-4.	4.1	34
36	On the algebraic structure of the Silver code: A 2 × 2 perfect space-time block code. , 2008, , .		33

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37	Orthogonal Time Sequency Multiplexing Modulation: Analysis and Low-Complexity Receiver Design. IEEE Transactions on Wireless Communications, 2021, 20, 7842-7855.	9.2	32
38	Algebraic lattice constellations: bounds on performance. IEEE Transactions on Information Theory, 2006, 52, 319-327.	2.4	30
39	Low Complexity Iterative Rake Detector for Orthogonal Time Frequency Space Modulation. , 2020, , .		29
40	Compensation of nonlinearities in high-density magnetic recording channels. IEEE Transactions on Magnetics, 1994, 30, 5079-5086.	2.1	26
41	Sensitivity improvement and carrier power reduction in direct-detection optical OFDM systems by subcarrier pairing. Optics Express, 2012, 20, 1635.	3.4	26
42	Signal Space Representation of Chipless RFID Tag Frequency Signatures. , 2011, , .		25
43	Spatial Modulation in Full-Duplex Relaying. IEEE Communications Letters, 2016, 20, 2111-2114.	4.1	25
44	Lattice Index Coding. IEEE Transactions on Information Theory, 2015, 61, 6505-6525.	2.4	23
45	How fading affects CDMA: an asymptotic analysis with linear receivers. IEEE Journal on Selected Areas in Communications, 2001, 19, 191-201.	14.0	21
46	Decoding Probability in Random Linear Network Coding with Packet Losses. IEEE Communications Letters, 2013, 17, 1-4.	4.1	21
47	Millimeter Wave Analog Beamforming With Low Resolution Phase Shifters for Multiuser Uplink. IEEE Transactions on Vehicular Technology, 2018, 67, 3205-3215.	6.3	21
48	New Space–Time Code Constructions for Two-User Multiple Access Channels. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 939-957.	10.8	20
49	Index Codes for the Gaussian Broadcast Channel Using Quadrature Amplitude Modulation. IEEE Communications Letters, 2015, 19, 1291-1294.	4.1	19
50	Unshared Secret Key Cryptography. IEEE Transactions on Wireless Communications, 2014, 13, 6670-6683.	9.2	18
51	Full Diversity Unitary Precoded Integer-Forcing. IEEE Transactions on Wireless Communications, 2015, 14, 4316-4327.	9.2	18
52	OTFS Modem SDR Implementation and Experimental Study of Receiver Impairment Effects. , 2019, , .		18
53	OTFS Based Random Access Preamble Transmission for High Mobility Scenarios. IEEE Transactions on Vehicular Technology, 2020, 69, 15078-15094.	6.3	18
54	Optimal User Pairing for Multiuser MIMO. , 2008, , .		17

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55	Golden Space–Time Block-Coded Modulation. IEEE Transactions on Information Theory, 2009, 55, 584-597.	2.4	17
56	Reconstruction of Multidimensional Signals From Irregular Noisy Samples. IEEE Transactions on Signal Processing, 2008, 56, 4274-4285.	5.3	16
57	On the ergodic rate for compute-and-forward. , 2012, , .		16
58	Low-Complexity Linear Diversity-Combining Detector for MIMO-OTFS. IEEE Wireless Communications Letters, 2022, 11, 288-292.	5.0	16
59	Hardware implementation of a low-complexity detector for large MIMO. , 2009, , .		15
60	Stepped List Decoding for Polar Codes. , 2018, , .		15
61	Improved List Decoding of Polar Codes by Shifted-pruning. , 2019, , .		15
62	On Convolutional Precoding in PAC Codes. , 2021, , .		15
63	Phase precoded compute-and-forward with partial feedback. , 2014, , .		14
64	How to Modify Polar Codes for List Decoding. , 2019, , .		14
65	List Viterbi Decoding of PAC Codes. IEEE Transactions on Vehicular Technology, 2021, 70, 2428-2435.	6.3	14
66	Performance of high-diversity multidimensional constellations. IEEE Transactions on Information Theory, 1998, 44, 1539-1543.	2.4	13
67	Sphere Lower Bound for Rotated Lattice Constellations in Fading Channels. IEEE Transactions on Wireless Communications, 2008, 7, 825-830.	9.2	13
68	Self-Heterodyne OFDM Transmission for Frequency Selective Channels. IEEE Transactions on Communications, 2013, 61, 1936-1946.	7.8	13
69	Polar Codes for Block Fading Channels. , 2017, , .		13
70	Analog Beamforming With Low Resolution Phase Shifters. IEEE Wireless Communications Letters, 2017, 6, 502-505.	5.0	13
71	Lattices Applied to Coding for Reliable and Secure Communications. SpringerBriefs in Mathematics, 2017, , .	0.3	13
72	On Fast-Decodable Space-Time Block Codes. , 2008, , .		12

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74	Practical Encoders and Decoders for Euclidean Codes from Barnes-Wall Lattices. IEEE Transactions on Communications, 2013, 61, 4417-4427.	7.8	12
75	Modulation and coding for the Gaussian collision channel. IEEE Transactions on Information Theory, 2000, 46, 2007-2026.	2.4	11
76	Large Kernel Polar Codes With Efficient Window Decoding. IEEE Transactions on Vehicular Technology, 2020, 69, 14031-14036.	6.3	11
77	Optimal energy transfer in band-limited communication channels. IEEE Transactions on Information Theory, 1999, 45, 2020-2029.	2.4	10
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79	Approximating the error probability for the independent rayleigh fading channel. , 2005, , .		9
80	Optimal user pairing in downlink MU-MIMO with transmit precoding. , 2008, , .		9
81	Signal Reconstruction Errors in Jittered Sampling. IEEE Transactions on Signal Processing, 2009, 57, 4711-4718.	5.3	9
82	Folded tree maximum-likelihood decoder for Kronecker product-based codes. , 2013, , .		9
83	Artificial noise revisited: When Eve has more antennas than Alice. , 2014, , .		9
84	Orthogonal Time Sequency Multiplexing Modulation. , 2021, , .		9
85	New algebraic constructions of rotated cubic lattice constellations for the Rayleigh fading channel. , 0, , .		8
86	A VLSI Decoder for the Golden code. , 2006, , .		8
87	The impact of quasi-equally spaced sensor layouts on field reconstruction. , 2007, , .		8
88	Algebraic Multiuser Space–Time Block Codes for a 2 $\imes$ 2 MIMO. IEEE Transactions on Vehicular Technology, 2009, 58, 3062-3066.	6.3	8
89	Integer Space-Time Block Codes for Practical MIMO Systems. IEEE Wireless Communications Letters, 2013, 2, 455-458.	5.0	8
90	Subcarrier pairing for self-heterodyne OFDM. , 2013, , .		8

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91	A Novel Graph Expansion and a Decoding Algorithm for NB-LDPC Codes. IEEE Transactions on Communications, 2020, 68, 1358-1369.	7.8	8
92	Pulse shape optimization in dispersion-limited direct detection optical fiber links. IEEE Communications Letters, 2003, 7, 552-554.	4.1	7
93	Permutation modulation for fading channels. , 0, , .		7
94	A Space-Time Block Coded Multiuser MIMO Downlink Transmission Scheme. , 2006, , .		7
95	Quality of Field Reconstruction in Sensor Networks. , 2007, , .		7
96	Applications of the Golden Code. , 2007, , .		7
97	Construction of Barnes-Wall lattices from linear codes over rings. , 2012, , .		7
98	Joint optimization scheme and sum constellation distribution for multi-user Gaussian multiple access channels with finite input constellations. , 2016, , .		7
99	MIMO Self-Heterodyne OFDM. IEEE Transactions on Vehicular Technology, 2016, 65, 1271-1280.	6.3	7
100	Repetition‑assisted decoding of polar codes. Electronics Letters, 2019, 55, 270-272.	1.0	7
101	Efficient Blind Detection Scheme Based on Simplified Decoding of Polar Codes. IEEE Wireless Communications Letters, 2021, 10, 864-868.	5.0	7
102	Improving the Sensitivity of Direct-Detection Optical OFDM Systems by Pairing of the Optical Subcarriers. , 2011, , .		7
103	Probability estimates for fading and wiretap channels from ideal class zeta functions. Advances in Mathematics of Communications, 2015, 9, 391-413.	0.7	7
104	Algebraic decoding of the ternary (11,6,5) Golay code. Electronics Letters, 1992, 28, 2021.	1.0	6
105	On the performance of golden space-time trellis coded modulation over MIMO block fading channels. IEEE Transactions on Wireless Communications, 2009, 8, 2737-2741.	9.2	6
106	On the detection of chipless RFID through signal space representation. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 437-445.	2.5	6
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111	Diffraction of a Plane Wave by a Strip Grating. Electromagnetics, 1990, 10, 245-269.	0.7	5
112	Decoding the golden space-time trellis coded modulation. IEEE Communications Letters, 2008, 12, 569-571.	4.1	5
113	Enabling VLSI Processing Blocks for MIMO-OFDM Communications. VLSI Design, 2008, 2008, 1-10.	0.5	5
114	On the robustness of algebraic STBCs to coefficient quantization. , 2012, , .		5
115	Full-rate integer space-time block codes for 2×2 MIMO channels. , 2013, , .		5
116	On parameter estimation of the envelope Gaussian mixture model. , 2014, , .		5
117	Multiple Folding for Successive Cancelation Decoding of Polar Codes. IEEE Wireless Communications Letters, 2014, 3, 545-548.	5.0	5
118	Quantization of binary input DMC at optimal mutual information using constrained shortest path problem. , 2015, , .		5
119	Optimal Power Allocation Strategies in Two-Hop X-Duplex Relay Channel. IEEE Transactions on Communications, 2018, 66, 2888-2903.	7.8	5
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121	Shifted Pruning for Path Recovery in List Decoding of Polar Codes. , 2021, , .		5
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124	Performance of wideband CDMA systems supporting multimedia traffic. IEEE Communications Letters, 2001, 5, 251-253.	4.1	4
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128	X- and Y-Codes for MIMO precoding. , 2010, , .		4
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131	Trellis coded modulation for informed receivers. , 2017, , .		4
132	Adaptive polar coding with high order modulation for block fading channels. , 2017, , .		4
133	Adaptive Resource Allocation for Secure Two-Hop Relaying Communication. IEEE Transactions on Wireless Communications, 2018, 17, 8457-8472.	9.2	4
134	On Data Acquisition And Field Reconstruction In Wireless Sensor Networks. , 2006, , 161-171.		4
135	Significance-Test Based Blind Detection for 5G. IEEE Transactions on Vehicular Technology, 2022, 71, 7957-7962.	6.3	4
136	THE CIPHERED AUTOBIOGRAPHY OF A 19th CENTURY EGYPTOLOGIST. Cryptologia, 1998, 22, 231-243.	0.5	3
137	Signal Reconstruction in Multidimensional Sensor Fields. , 2008, , .		3
138	Algebraic multiuser space-time block codes for 2 &#x00D7; 2 MIMO. , 2008, , .		3
139	On the decay of the determinants of multiuser MIMO lattice codes. , 2010, , .		3
140	Modulation Diversity in Fading Channels with a Quantized Receiver. IEEE Transactions on Wireless Communications, 2012, 11, 316-327.	9.2	3
141	On the Error Performance of the A_{n} Lattices. IEEE Transactions on Information Theory, 2012, 58, 5941-5949.	2.4	3
142	Analysis of Self-Het OFDM enhancements for 60GHz indoor RF channels. , 2013, , .		3
143	A new multiple folded successive cancellation decoder for polar codes. , 2014, , .		3
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145	Self-coherent OFDM for wireless communications. , 2015, , .		3
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147	Geometrically uniform differential vector signaling schemes. , 2017, , .		3
148	An efficient successive cancellation polar decoder based on new folding approaches. , 2017, , .		3
149	Adaptive resource allocation for secure two-hop communication. , 2018, , .		3
150	Efficient Decoding of Low Density Lattice Codes. IEEE Wireless Communications Letters, 2019, 8, 1195-1199.	5.0	3
151	LDPC-Staircase Codes for Soft Decision Decoding. , 2020, , .		3
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153	A Novel Approach in the Detection of Chipless RFID. , 0, , 218-233.		3
154	On Z/sub 4/- and Z/sub 9/-linear lifts of the Golay codes. IEEE Transactions on Information Theory, 1999, 45, 2524-2527.	2.4	2
155	Precoding with X-codes to increase capacity with discrete input alphabets. , 2010, , .		2
156	X-Codes: A Low Complexity Full-Rate High-Diversity Achieving Precoder for TDD MIMO Systems. , 2010, , .		2
157	The impact of quasi-equally spaced sensor topologies on signal reconstruction. ACM Transactions on Sensor Networks, 2010, 6, 1-31.	3.6	2
158	Asymptotic Analysis of Multidimensional Jittered Sampling. IEEE Transactions on Signal Processing, 2010, 58, 258-268.	5.3	2
159	Modulation diversity in fading channels with quantized receiver. , 2011, , .		2
160	Improved multiple folded successive cancellation decoder for polar codes. , 2014, , .		2
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163	Oblivious Transfer Over Wireless Channels. IEEE Transactions on Communications, 2016, 64, 893-905.	7.8	2
164	Line coding for differential vector signaling. , 2017, , .		2
165	Iterative Decoding of Reed-Solomon Codes based on Non-binary Matrices. , 2019, , .		2
166	Steepest Gradient-Based Orthogonal Precoder for Integer-Forcing MIMO. IEEE Transactions on Wireless Communications, 2020, 19, 942-955.	9.2	2
167	Index Coding at the WiFi Edge: An Implementation Study for Video Delivery. , 2020, , .		2
168	Channel Modeling for Wireless Communications Using Ambit Processes. IEEE Transactions on Wireless Communications, 2020, 19, 8396-8409.	9.2	2
169	Hybrid Non-Binary Repeated Polar Codes. IEEE Transactions on Wireless Communications, 2022, 21, 7582-7594.	9.2	2
170	High Rate Golden Space-Time Trellis Coded Modulation. , 2006, , .		1
171	Performance of Rotated Lattice Constellations in Fading Channels. , 2006, , .		1
172	Algebraic Multiuser Space-Frequency Block Codes. , 2008, , .		1
173	Fast and Accurate PQoS Estimation over 802.11g Wireless Network. , 2008, , .		1
174	Introduction to the Issue on Managing Complexity in Multiuser MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 906-909.	10.8	1
175	RQ precoding for the cooperative broadcast channel. , 2009, , .		1
176	Gaussian sampling based lattice decoding. , 2013, , .		1
177	On measures of information theoretic security. , 2014, , .		1
178	Unitary precoding for integer-forcing MIMO linear receivers. , 2014, , .		1
179	On the capacity of the Gaussian mixture channel under average and peak power constraints. , 2015, , .		1
180	Integer-Forcing Linear Receivers: A Design Criterion for Full-Diversity STBCs. , 2017, , .		1

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181	Capacity optimality of lattice codes in common message Gaussian broadcast channels with coded side information. , 2017, , .		1
182	Line-of-Sight $2 \times n_r$ MIMO With Random Antenna Orientations. IEEE Transactions on Vehicular Technology, 2017, 66, 5134-5147.	6.3	1
183	Optimal transmission strategy in full-duplex relay networks. , 2017, , .		1
184	Error Control of Line Codes Generated by Finite Coxeter Groups. , 2018, , .		1
185	Layered Space- Time Index Coding. , 2018, , .		1
186	Lattice Codes Achieve the Capacity of Common Message Gaussian Broadcast Channels With Coded Side Information. IEEE Transactions on Information Theory, 2018, 64, 1481-1496.	2.4	1
187	Layered Space-Time Index Coding. IEEE Transactions on Information Theory, 2019, 65, 142-158.	2.4	1
188	Orthogonal Precoder for Integer-Forcing MIMO. , 2019, , .		1
189	Line Codes Generated by Finite Coxeter Groups. IEEE Transactions on Information Theory, 2019, 65, 1936-1947.	2.4	1
190	Ray-Tracing Simulation of Cross-Road Scenarios Based on a Stochastic Model for Vehicular Traffic. , 2019, , .		1
191	Geometry based Stochastic Channel Modeling using Ambit Processes. , 2020, , .		1
192	On Distance Statistics of First Arriving Multi-Paths in Indoor mm-Wave Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 16218-16223.	6.3	1
193	Logarithmic Non-uniform Quantization for List Decoding of Polar Codes. , 2021, , .		1
194	Transmitter Optimization and Theoretical Bounds for Dispersion-Limited Optical Fiber Links. IEEE Transactions on Communications, 2004, 52, 1558-1565.	7.8	0
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199	Algebraic Coding for Fast Fading Channels. , 2011, , 117-153.		0
200	A word from the general and technical program co-chair. , 2014, , .		0
201	Harmonic analysis of binary functions. , 2015, , .		0
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203	Oblivious transfer over OFDM and MIMO channels. , 2015, , .		0
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209	Optimal user pairing in downlink MU-MIMO with transmit precoding. , 2008, , .		0
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214	MIMO and multiuser OTFS. , 2022, , 177-200.		0
215	Channel estimation methods. , 2022, , 153-175.		0
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217	High-mobility wireless channels. , 2022, , 13-28.		0
218	Analysis of Polarization-adjusted Convolutional Codes (PAC): A Source-Channel Coding Method. , 2021, , .		0