

Chun Tung Chou

List of Publications by Year in descending order

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156
papers

3,330
citations

236612

25
h-index

264894

42
g-index

160
all docs

160
docs citations

160
times ranked

2563
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Biochemical Circuits to Approximately Compute Log-Likelihood Ratio for Detecting Persistent Signals. IEEE Access, 2021, 9, 128996-129010.	2.6	1
2	WiRelax: Towards real-time respiratory biofeedback during meditation using WiFi. Ad Hoc Networks, 2020, 107, 102226.	3.4	10
3	Poster Abstract: A Weakly Supervised Tracking of Hand Hygiene Technique. , 2020, , .		4
4	Using Spatial Partitioning to Reduce the Bit Error Rate of Diffusion-Based Molecular Communications. IEEE Transactions on Communications, 2020, 68, 2204-2220.	4.9	4
5	RFWash. , 2020, , .		17
6	From Real to Complex. ACM Transactions on Sensor Networks, 2019, 15, 1-32.	2.3	23
7	Designing Molecular Circuits for Approximate Maximum a Posteriori Demodulation of Concentration Modulated Signals. IEEE Transactions on Communications, 2019, 67, 5458-5473.	4.9	13
8	eNEUTRAL IoNT: Energy-Neutral Event Monitoring for Internet of Nano Things. IEEE Internet of Things Journal, 2019, 6, 2379-2389.	5.5	15
9	A Cooperative Machine Learning Approach for Pedestrian Navigation in Indoor IoT. Sensors, 2019, 19, 4609.	2.1	3
10	Molecular Communications With Molecular Circuit-Based Transmitters and Receivers. IEEE Transactions on Nanobioscience, 2019, 18, 146-155.	2.2	16
11	Maximum a posteriori-based molecular circuit demodulators for spatially partitioned molecular communication receivers. , 2019, , .		1
12	Continuous Authentication Using Eye Movement Response of Implicit Visual Stimuli. , 2018, 1, 1-22.		43
13	Using detection theory and molecular computation to understand signal processing in living cells. , 2018, , .		1
14	Detection of persistent signals and its relation to coherent feed-forward loops. Royal Society Open Science, 2018, 5, 181641.	1.1	5
15	CardioFi. , 2018, , .		11
16	Molecular circuit for approximate maximum a posteriori demodulation of concentration modulated signals. , 2018, , .		4
17	Using spatial partitioning to reduce receiver signal variance in diffusion-based molecular communication. , 2018, , .		7
18	VeinDeep: Smartphone unlock using vein patterns. , 2017, , .		1

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19	SEMON. ACM Transactions on Sensor Networks, 2017, 13, 1-28.	2.3	10
20	Generalized Solution for the Demodulation of Reaction Shift Keying Signals in Molecular Communication Networks. IEEE Transactions on Communications, 2017, 65, 715-727.	4.9	27
21	Event and node identification from a single-pulse transmission in self-powered nanosensor networks. , 2017, , .		4
22	Improving the Capacity of Molecular Communication Using Enzymatic Reaction Cycles. IEEE Transactions on Nanobioscience, 2017, 16, 744-754.	2.2	25
23	Learn to Recognise: Exploring Priors of Sparse Face Recognition on Smartphones. IEEE Transactions on Mobile Computing, 2017, 16, 1705-1717.	3.9	16
24	Molecular circuit-based transmitters and receivers for molecular communication networks. , 2017, , .		5
25	Chemical reaction networks for computing logarithm. Synthetic Biology, 2017, 2, ysx002.	1.2	12
26	Chemical reaction networks for maximum likelihood estimation of the concentration of signalling molecules. , 2017, , .		1
27	WashInDepth. , 2016, , .		6
28	QuickFind: Fast and contact-free object detection using a depth sensor. , 2016, , .		2
29	Demodulation of reaction shift keying signals in molecular communication network with protein kinase receiver circuit. , 2016, , .		11
30	Characterizing terahertz channels for monitoring human lungs with wireless nanosensor networks. Nano Communication Networks, 2016, 9, 43-57.	1.6	13
31	Analyzing diurnal variations of millimeter wave channels. , 2016, , .		8
32	Energy-Harvesting Nanosensor Networks: Efficient event detection. IEEE Nanotechnology Magazine, 2016, 10, 4-12.	0.9	6
33	Efficient and Transparent Use of personal device storage in opportunistic data forwarding. Computer Communications, 2016, 73, 47-55.	3.1	3
34	Real-Time and Robust Compressive Background Subtraction for Embedded Camera Networks. IEEE Transactions on Mobile Computing, 2016, 15, 406-418.	3.9	34
35	Open-Loop Power Adaptation in Nanosensor Networks for Chemical Reactors. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 292-307.	1.4	2
36	Remote Detection of Chemical Reactions using Nanoscale Terahertz Communication Powered by Pyroelectric Energy Harvesting. , 2015, , .		10

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37	Performance analysis of carrier-less modulation schemes for wireless nanosensor networks. , 2015, , .		9
38	Reliability analysis of time-varying wireless nanoscale sensor networks. , 2015, , .		7
39	Impact of Receiver Reaction Mechanisms on the Performance of Molecular Communication Networks. IEEE Nanotechnology Magazine, 2015, 14, 304-317.	1.1	39
40	A Markovian Approach to the Optimal Demodulation of Diffusion-Based Molecular Communication Networks. IEEE Transactions on Communications, 2015, 63, 3728-3743.	4.9	49
41	Impact of Receiver Molecular Circuits on the Performance of Reaction Shift Keying. , 2015, , .		14
42	dRTL. , 2015, , .		45
43	Radio-based device-free activity recognition with radio frequency interference. , 2015, , .		56
44	Maximum <i>A-Posteriori</i> Decoding for Diffusion-Based Molecular Communication Using Analog Filters. IEEE Nanotechnology Magazine, 2015, 14, 1054-1067.	1.1	25
45	SimpleTrack: Adaptive Trajectory Compression With Deterministic Projection Matrix for Mobile Sensor Networks. IEEE Sensors Journal, 2015, 15, 365-373.	2.4	29
46	Ear-Phone: A context-aware noise mapping using smart phones. Pervasive and Mobile Computing, 2015, 17, 1-22.	2.1	80
47	Optimal Sampling Strategy Enabling Energy-Neutral Operations at Rechargeable Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 201-208.	2.4	3
48	High-Throughput Reliable Multicast in Multi-Hop Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2015, 14, 728-741.	3.9	31
49	Design and Analysis of a Wireless Nanosensor Network for Monitoring Human Lung Cells. , 2015, , .		14
50	A collaborative approach to heading estimation for smartphone-based PDR indoor localisation. , 2014, , .		22
51	A message ferrying approach to low-cost backhaul in cellular networks. , 2014, , .		3
52	Frequency hopping strategies for improving terahertz sensor network performance over composition varying channels. , 2014, , .		20
53	Face recognition on smartphones via optimised Sparse Representation Classification. , 2014, , .		28
54	Innovative Approach to Improving Gas-to-Liquid Fuel Catalysis via Nanosensor Network Modulation. Industrial & Engineering Chemistry Research, 2014, 53, 5728-5736.	1.8	13

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55	Molecular communication networks with general molecular circuit receivers. , 2014, , .		7
56	Noise properties of linear molecular communication networks. Nano Communication Networks, 2013, 4, 87-97.	1.6	20
57	Nano-scale sensor networks for chemical catalysis. , 2013, , .		8
58	Joint optimization of continuity and quality for streaming video. Computer Networks, 2013, 57, 609-621.	3.2	0
59	Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 2120-2128.	2.4	43
60	Efficient Computation of Robust Average of Compressive Sensing Data in Wireless Sensor Networks in the Presence of Sensor Faults. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1525-1534.	4.0	26
61	Extended Master Equation Models for Molecular Communication Networks. IEEE Transactions on Nanobioscience, 2013, 12, 79-92.	2.2	59
62	Real-time classification via sparse representation in acoustic sensor networks. , 2013, , .		24
63	Projection matrix optimisation for compressive sensing based applications in embedded systems. , 2013, , .		1
64	Integrating video cameras for ALINEA on-ramp queue length estimation. , 2013, , .		1
65	Welcome message from the IEEE goSMART chairs. , 2013, , .		0
66	Distributed sparse approximation for frog sound classification. , 2012, , .		5
67	Efficient background subtraction for real-time tracking in embedded camera networks. , 2012, , .		43
68	Efficient background subtraction for tracking in embedded camera networks. , 2012, , .		2
69	Poster abstract: Distributed sparse approximation for frog sound classification. , 2012, , .		1
70	A Frame Rate Optimization Framework for Improving Continuity in Video Streaming. IEEE Transactions on Multimedia, 2012, 14, 910-922.	5.2	11
71	Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2012, 11, 881-895.	3.9	18
72	Poster abstract: Efficient background subtraction for tracking in embedded camera networks. , 2012, , .		3

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73	An opportunistic multicast routing protocol for wireless mesh networks. , 2012, , .		2
74	Modeling Impact of Sensor Placement for Vision-Based Traffic Monitoring. Transportation Research Record, 2012, 2315, 110-120.	1.0	2
75	Molecular circuits for decoding frequency coded signals in nano-communication networks. Nano Communication Networks, 2012, 3, 46-56.	1.6	150
76	Automatic image capturing and processing for PetrolWatch. , 2011, , .		12
77	Non-uniform compressive sensing in wireless sensor networks: Feasibility and application. , 2011, , .		10
78	A high-throughput routing metric for reliable multicast in multi-rate wireless mesh networks. , 2011, , .		28
79	Frame rate control for video streaming. , 2011, , .		1
80	An Adaptive Algorithm for Compressive Approximation of Trajectory (AACAT) for Delay Tolerant Networks. Lecture Notes in Computer Science, 2011, , 33-48.	1.0	14
81	Vehicle occlusion model for traffic monitoring. , 2010, , .		1
82	Ear-phone. , 2010, , .		531
83	CROSS-layer QoS-optimized EDCA adaptation for wireless video streaming. , 2010, , .		3
84	Performance of Multi-Hop Whisper Cognitive Radio Networks. , 2010, , .		3
85	Energy-Aware Sparse Approximation Technique (EAST) for Rechargeable Wireless Sensor Networks. Lecture Notes in Computer Science, 2010, , 306-321.	1.0	15
86	Video quality prediction in the presence of MAC contention and wireless channel error. , 2010, , .		1
87	Frame-recursive block-based distortion estimation model for multiple reference frames and motion copy concealment in H.264/AVC. , 2010, , .		1
88	Minimum Latency Broadcasting in Multiradio, Multichannel, Multirate Wireless Meshes. IEEE Transactions on Mobile Computing, 2009, 8, 1510-1523.	3.9	35
89	Socially conscious channel selection in 802.11 WLANs for coexistence in a non-cooperative environment. , 2009, , .		2
90	Energy efficient information collection in wireless sensor networks using adaptive compressive sensing. , 2009, , .		76

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91	Design and evaluation of a hybrid sensor network for cane toad monitoring. ACM Transactions on Sensor Networks, 2009, 5, 1-28.	2.3	103
92	Ear-Phone assessment of noise pollution with mobile phones. , 2009, , .		6
93	Rate-Diversity and Resource-Aware Broadcast and Multicast in Multi-rate Wireless Mesh Networks. Mobile Networks and Applications, 2008, 13, 38-53.	2.2	11
94	Probabilistically reliable on-demand multicast in wireless mesh networks. , 2008, , .		9
95	Resource-aware video multicasting via access gateways in wireless mesh networks. , 2008, , .		15
96	Localized minimum-latency broadcasting in multi-radio multi-rate wireless mesh networks. , 2008, , .		15
97	Hybrid frame-recursive block-based distortion estimation model for wireless video transmission. , 2008, , .		5
98	The impact of fading and shadowing on the network performance of wireless sensor networks. International Journal of Sensor Networks, 2008, 3, 211.	0.2	19
99	Special issue on advances in wireless networks. International Journal of Parallel, Emergent and Distributed Systems, 2008, 23, 289-289.	0.7	0
100	Automatic Collection of Fuel Prices from a Network of Mobile Cameras. , 2008, , 140-156.		52
101	A Cut-through MAC for Multiple Interface, Multiple Channel Wireless Mesh Networks. , 2007, , .		7
102	Power Optimization in Nano Sensor Networks for Chemical Reactors. , 2007, , .		2
103	Advances and Challenges with Data Broadcasting in Wireless Mesh Networks. , 2007, 45, 78-85.		6
104	Non-Cooperative Coexistence of Co-located Independent Wireless Mesh Networks. , 2007, , .		6
105	A Scheme for Probabilistically Reliable Multicast Routing in Wireless Mesh Networks. , 2007, , .		18
106	A Robust Device Hybrid Scheme to Improve System Performance in Gigabit Ethernet Networks. , 2007, , .		10
107	Localized Minimum-Latency Broadcasting in Multi-rate Wireless Mesh Networks. , 2007, , .		6
108	Maximizing Broadcast and Multicast Traffic Load through Link-Rate Diversity in Wireless Mesh Networks. , 2007, , .		14

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109	Exploiting Rate Diversity for Multicasting in Multi-Radio Wireless Mesh Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	8
110	On the Fading and Shadowing Effects for Wireless Sensor Networks. , 2006, , .		9
111	Protecting Multicast Sessions in Wireless Mesh Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	29
112	Low-Latency Broadcast in Multirate Wireless Mesh Networks. IEEE Journal on Selected Areas in Communications, 2006, 24, 2081-2091.	9.7	81
113	QoS Driven Parallelization of Resources to Reduce File Download Delay. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 1204-1215.	4.0	6
114	Welcome Message from the WLN Co-chairs. , 2006, , .		0
115	Deploying long-lived and cost-effective hybrid sensor networks. Ad Hoc Networks, 2006, 4, 749-767.	3.4	51
116	A dynamic caching algorithm based on internal popularity distribution of streaming media. Multimedia Systems, 2006, 12, 135-149.	3.0	28
117	Internal popularity of streaming video and its implication on caching. , 2006, , .		13
118	Minimum Latency Broadcasting in Multi-Radio Multi-Channel Multi-Rate Wireless Meshes. , 2006, , .		32
119	Proxy Caching for Interactive Streaming Media. Jisuanji Yanjiu Yu Fazhan/Computer Research and Development, 2006, 43, 594.	0.2	1
120	Welcome Message from the WLN Co-chairs. , 2005, , .		0
121	A proxy-based rate control strategy of streaming media distribution in heterogeneous access environments. , 2005, , .		0
122	Provisioning overlay distribution networks. Computer Networks, 2005, 49, 103-118.	3.2	19
123	A hybrid sensor network for cane-toad monitoring. , 2005, , .		16
124	Dynamic routing of restorable QoS connections in MPLS networks. , 2005, , .		4
125	Active Queue Management Algorithms in DiffServ Networks. Ruan Jian Xue Bao/Journal of Software, 2005, 16, 1120.	0.3	1
126	An Enhanced Scalable Probe-Based Multicast Admission Control Scheme. IEICE Transactions on Communications, 2005, E88-B, 3466-3470.	0.4	4

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127	Analysis and improvement on the robustness of AQM in DiffServ networks. , 2004, , .		4
128	Traffic engineering for MPLS-based virtual private networks. Computer Networks, 2004, 44, 319-333.	3.2	25
129	Wiener model identification and predictive control for dual composition control of a distillation column. Journal of Process Control, 2001, 11, 601-620.	1.7	103
130	Residual models and stochastic realization in state-space identification. International Journal of Control, 2001, 74, 988-995.	1.2	11
131	A novel approach on parameter identification for inverter driven induction machines. IEEE Transactions on Control Systems Technology, 2000, 8, 873-882.	3.2	14
132	Application of Aerodynamic Actuators to Improve Vehicle Handling. Vehicle System Dynamics, 1999, 32, 345-374.	2.2	25
133	Linear and Non-linear System Identification Using Separable Least-Squares. European Journal of Control, 1999, 5, 116-128.	1.6	105
134	Stochastic theory of continuous-time state-space identification. IEEE Transactions on Signal Processing, 1999, 47, 41-51.	3.2	75
135	Continuous-time identification of SISO systems using Laguerre functions. IEEE Transactions on Signal Processing, 1999, 47, 349-362.	3.2	47
136	System identification using balanced parametrizations. IEEE Transactions on Automatic Control, 1997, 42, 956-974.	3.6	34
137	Subspace Algorithms for the Identification of Multivariable Dynamic Errors-in-Variables Models**This paper was not presented at any IFAC meeting. This paper was recommended for publication in revised form by Associate Editor H. Hjalmarsson under the direction of Editor Torsten SÅrderstrÅm.. Automatica, 1997, 33, 1857-1869.	3.0	198
138	Residual models and stochastic realization in state-space system identification. , 0, , .		1
139	A new approach to estimate noise distribution under chaotic background. , 0, , .		0
140	Performance evaluation of distributed access scheme in error-prone channel. , 0, , .		6
141	Improve fairness with adaptive RIO for assured service in DiffServ networks. , 0, , .		2
142	A QoS provisioning framework for high-speed multimedia wireless networks. , 0, , .		2
143	Traffic engineering for MPLS-based virtual private networks. , 0, , .		3
144	Analysis and representation of statistical performance of JPEG2000 encoded image over wireless channels. , 0, , .		0

#	ARTICLE	IF	CITATIONS
145	Investigation of JPEG2000 image transmission over next generation wireless networks. , 0, , .		0
146	A hybrid optical network architecture consisting of optical cross connects and optical burst switches. , 0, , .		11
147	Performance analysis and service differentiation in IEEE 802.11 WLAN. , 0, , .		7
148	Provisioning content distribution networks over shared infrastructure. , 0, , .		5
149	A self-organizing scheme for cache consistency. , 0, , .		0
150	Optimized allocation of distributed applications across local area networks. , 0, , .		0
151	Popularity-wise proxy caching for interactive streaming media. , 0, , .		5
152	An energy efficient select optimal neighbor protocol for wireless ad hoc networks. , 0, , .		6
153	Two adaptive AQM algorithms for quantitative differentiated services. , 0, , .		0
154	Using frequency division to reduce MAI in DS-CDMA wireless sensor networks. , 0, , .		5
155	The design and evaluation of a hybrid sensor network for cane-toad monitoring. , 0, , .		5
156	On large scale deployment of parallelized file transfer protocol. , 0, , .		4