

Chun Tung Chou

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Ear-phone. , 2010, , . | | 531 |
| 2 | 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 |
| 3 | Molecular circuits for decoding frequency coded signals in nano-communication networks. Nano Communication Networks, 2012, 3, 46-56. | 1.6 | 150 |
| 4 | Linear and Non-linear System Identification Using Separable Least-Squares. European Journal of Control, 1999, 5, 116-128. | 1.6 | 105 |
| 5 | 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 |
| 6 | Design and evaluation of a hybrid sensor network for cane toad monitoring. ACM Transactions on Sensor Networks, 2009, 5, 1-28. | 2.3 | 103 |
| 7 | Low-Latency Broadcast in Multirate Wireless Mesh Networks. IEEE Journal on Selected Areas in Communications, 2006, 24, 2081-2091. | 9.7 | 81 |
| 8 | Ear-Phone: A context-aware noise mapping using smart phones. Pervasive and Mobile Computing, 2015, 17, 1-22. | 2.1 | 80 |
| 9 | Energy efficient information collection in wireless sensor networks using adaptive compressive sensing. , 2009, , . | | 76 |
| 10 | Stochastic theory of continuous-time state-space identification. IEEE Transactions on Signal Processing, 1999, 47, 41-51. | 3.2 | 75 |
| 11 | Extended Master Equation Models for Molecular Communication Networks. IEEE Transactions on Nanobioscience, 2013, 12, 79-92. | 2.2 | 59 |
| 12 | Radio-based device-free activity recognition with radio frequency interference. , 2015, , . | | 56 |
| 13 | Automatic Collection of Fuel Prices from a Network of Mobile Cameras. , 2008, , 140-156. | | 52 |
| 14 | Deploying long-lived and cost-effective hybrid sensor networks. Ad Hoc Networks, 2006, 4, 749-767. | 3.4 | 51 |
| 15 | A Markovian Approach to the Optimal Demodulation of Diffusion-Based Molecular Communication Networks. IEEE Transactions on Communications, 2015, 63, 3728-3743. | 4.9 | 49 |
| 16 | Continuous-time identification of SISO systems using Laguerre functions. IEEE Transactions on Signal Processing, 1999, 47, 349-362. | 3.2 | 47 |
| 17 | dRTI. , 2015, , . | | 45 |
| 18 | Efficient background subtraction for real-time tracking in embedded camera networks. , 2012, , . | | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 2120-2128. | 2.4 | 43 |
| 20 | Continuous Authentication Using Eye Movement Response of Implicit Visual Stimuli. , 2018, 1, 1-22. | | 43 |
| 21 | Impact of Receiver Reaction Mechanisms on the Performance of Molecular Communication Networks. IEEE Nanotechnology Magazine, 2015, 14, 304-317. | 1.1 | 39 |
| 22 | Minimum Latency Broadcasting in Multiradio, Multichannel, Multirate Wireless Meshes. IEEE Transactions on Mobile Computing, 2009, 8, 1510-1523. | 3.9 | 35 |
| 23 | System identification using balanced parametrizations. IEEE Transactions on Automatic Control, 1997, 42, 956-974. | 3.6 | 34 |
| 24 | Real-Time and Robust Compressive Background Subtraction for Embedded Camera Networks. IEEE Transactions on Mobile Computing, 2016, 15, 406-418. | 3.9 | 34 |
| 25 | Minimum Latency Broadcasting in Multi-Radio Multi-Channel Multi-Rate Wireless Meshes. , 2006, , . | | 32 |
| 26 | High-Throughput Reliable Multicast in Multi-Hop Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2015, 14, 728-741. | 3.9 | 31 |
| 27 | Protecting Multicast Sessions in Wireless Mesh Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , . | 0.0 | 29 |
| 28 | SimpleTrack: Adaptive Trajectory Compression With Deterministic Projection Matrix for Mobile Sensor Networks. IEEE Sensors Journal, 2015, 15, 365-373. | 2.4 | 29 |
| 29 | A dynamic caching algorithm based on internal popularity distribution of streaming media. Multimedia Systems, 2006, 12, 135-149. | 3.0 | 28 |
| 30 | A high-throughput routing metric for reliable multicast in multi-rate wireless mesh networks. , 2011, , . | | 28 |
| 31 | Face recognition on smartphones via optimised Sparse Representation Classification. , 2014, , . | | 28 |
| 32 | 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 |
| 33 | 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 |
| 34 | Application of Aerodynamic Actuators to Improve Vehicle Handling. Vehicle System Dynamics, 1999, 32, 345-374. | 2.2 | 25 |
| 35 | Traffic engineering for MPLS-based virtual private networks. Computer Networks, 2004, 44, 319-333. | 3.2 | 25 |
| 36 | Maximum <i>A-Posteriori</i> Decoding for Diffusion-Based Molecular Communication Using Analog Filters. IEEE Nanotechnology Magazine, 2015, 14, 1054-1067. | 1.1 | 25 |

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| 37 | Improving the Capacity of Molecular Communication Using Enzymatic Reaction Cycles. IEEE Transactions on Nanobioscience, 2017, 16, 744-754. | 2.2 | 25 |
| 38 | Real-time classification via sparse representation in acoustic sensor networks. , 2013, , . | | 24 |
| 39 | From Real to Complex. ACM Transactions on Sensor Networks, 2019, 15, 1-32. | 2.3 | 23 |
| 40 | A collaborative approach to heading estimation for smartphone-based PDR indoor localisation. , 2014, , . | | 22 |
| 41 | Noise properties of linear molecular communication networks. Nano Communication Networks, 2013, 4, 87-97. | 1.6 | 20 |
| 42 | Frequency hopping strategies for improving terahertz sensor network performance over composition varying channels. , 2014, , . | | 20 |
| 43 | Provisioning overlay distribution networks. Computer Networks, 2005, 49, 103-118. | 3.2 | 19 |
| 44 | 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 |
| 45 | A Scheme for Probabilistically Reliable Multicast Routing in Wireless Mesh Networks. , 2007, , . | | 18 |
| 46 | Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2012, 11, 881-895. | 3.9 | 18 |
| 47 | RFWash. , 2020, , . | | 17 |
| 48 | A hybrid sensor network for cane-toad monitoring. , 2005, , . | | 16 |
| 49 | Learn to Recognise: Exploring Priors of Sparse Face Recognition on Smartphones. IEEE Transactions on Mobile Computing, 2017, 16, 1705-1717. | 3.9 | 16 |
| 50 | Molecular Communications With Molecular Circuit-Based Transmitters and Receivers. IEEE Transactions on Nanobioscience, 2019, 18, 146-155. | 2.2 | 16 |
| 51 | Resource-aware video multicasting via access gateways in wireless mesh networks. , 2008, , . | | 15 |
| 52 | Localized minimum-latency broadcasting in multi-radio multi-rate wireless mesh networks. , 2008, , . | | 15 |
| 53 | Energy-Aware Sparse Approximation Technique (EAST) for Rechargeable Wireless Sensor Networks. Lecture Notes in Computer Science, 2010, , 306-321. | 1.0 | 15 |
| 54 | eNEUTRAL IoT: Energy-Neutral Event Monitoring for Internet of Nano Things. IEEE Internet of Things Journal, 2019, 6, 2379-2389. | 5.5 | 15 |

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| 55 | A novel approach on parameter identification for inverter driven induction machines. IEEE Transactions on Control Systems Technology, 2000, 8, 873-882. | 3.2 | 14 |
| 56 | Maximizing Broadcast and Multicast Traffic Load through Link-Rate Diversity in Wireless Mesh Networks. , 2007, , . | | 14 |
| 57 | Impact of Receiver Molecular Circuits on the Performance of Reaction Shift Keying. , 2015, , . | | 14 |
| 58 | An Adaptive Algorithm for Compressive Approximation of Trajectory (AACAT) for Delay Tolerant Networks. Lecture Notes in Computer Science, 2011, , 33-48. | 1.0 | 14 |
| 59 | Design and Analysis of a Wireless Nanosensor Network for Monitoring Human Lung Cells. , 2015, , . | | 14 |
| 60 | Internal popularity of streaming video and its implication on caching. , 2006, , . | | 13 |
| 61 | Innovative Approach to Improving Gas-to-Liquid Fuel Catalysis via Nanosensor Network Modulation. Industrial & Engineering Chemistry Research, 2014, 53, 5728-5736. | 1.8 | 13 |
| 62 | Characterizing terahertz channels for monitoring human lungs with wireless nanosensor networks. Nano Communication Networks, 2016, 9, 43-57. | 1.6 | 13 |
| 63 | Designing Molecular Circuits for Approximate Maximum a Posteriori Demodulation of Concentration Modulated Signals. IEEE Transactions on Communications, 2019, 67, 5458-5473. | 4.9 | 13 |
| 64 | Automatic image capturing and processing for PetrolWatch. , 2011, , . | | 12 |
| 65 | Chemical reaction networks for computing logarithm. Synthetic Biology, 2017, 2, ysx002. | 1.2 | 12 |
| 66 | Residual models and stochastic realization in state-space identification. International Journal of Control, 2001, 74, 988-995. | 1.2 | 11 |
| 67 | A hybrid optical network architecture consisting of optical cross connects and optical burst switches. , 0, , . | | 11 |
| 68 | 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 |
| 69 | A Frame Rate Optimization Framework for Improving Continuity in Video Streaming. IEEE Transactions on Multimedia, 2012, 14, 910-922. | 5.2 | 11 |
| 70 | Demodulation of reaction shift keying signals in molecular communication network with protein kinase receiver circuit. , 2016, , . | | 11 |
| 71 | CardioFi. , 2018, , . | | 11 |
| 72 | A Robust Device Hybrid Scheme to Improve System Performance in Gigabit Ethernet Networks. , 2007, , . | | 10 |

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| 73 | Non-uniform compressive sensing in wireless sensor networks: Feasibility and application. , 2011, , . | | 10 |
| 74 | Remote Detection of Chemical Reactions using Nanoscale Terahertz Communication Powered by Pyroelectric Energy Harvesting. , 2015, , . | | 10 |
| 75 | SEMON. ACM Transactions on Sensor Networks, 2017, 13, 1-28. | 2.3 | 10 |
| 76 | WiRelax: Towards real-time respiratory biofeedback during meditation using WiFi. Ad Hoc Networks, 2020, 107, 102226. | 3.4 | 10 |
| 77 | On the Fading and Shadowing Effects for Wireless Sensor Networks. , 2006, , . | | 9 |
| 78 | Probabilistically reliable on-demand multicast in wireless mesh networks. , 2008, , . | | 9 |
| 79 | Performance analysis of carrier-less modulation schemes for wireless nanosensor networks. , 2015, , . | | 9 |
| 80 | 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 |
| 81 | Nano-scale sensor networks for chemical catalysis. , 2013, , . | | 8 |
| 82 | Analyzing diurnal variations of millimeter wave channels. , 2016, , . | | 8 |
| 83 | Performance analysis and service differentiation in IEEE 802.11 WLAN. , 0, , . | | 7 |
| 84 | A Cut-through MAC for Multiple Interface, Multiple Channel Wireless Mesh Networks. , 2007, , . | | 7 |
| 85 | Reliability analysis of time-varying wireless nanoscale sensor networks. , 2015, , . | | 7 |
| 86 | Molecular communication networks with general molecular circuit receivers. , 2014, , . | | 7 |
| 87 | Using spatial partitioning to reduce receiver signal variance in diffusion-based molecular communication. , 2018, , . | | 7 |
| 88 | Performance evaluation of distributed access scheme in error-prone channel. , 0, , . | | 6 |
| 89 | An energy efficient select optimal neighbor protocol for wireless ad hoc networks. , 0, , . | | 6 |
| 90 | QoS Driven Parallelization of Resources to Reduce File Download Delay. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 1204-1215. | 4.0 | 6 |

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| 91 | Advances and Challenges with Data Broadcasting in Wireless Mesh Networks. , 2007, 45, 78-85. | | 6 |
| 92 | Non-Cooperative Coexistence of Co-located Independent Wireless Mesh Networks. , 2007, , . | | 6 |
| 93 | Localized Minimum-Latency Broadcasting in Multi-rate Wireless Mesh Networks. , 2007, , . | | 6 |
| 94 | WashInDepth. , 2016, , . | | 6 |
| 95 | Energy-Harvesting Nanosensor Networks: Efficient event detection. IEEE Nanotechnology Magazine, 2016, 10, 4-12. | 0.9 | 6 |
| 96 | Ear-Phone assessment of noise pollution with mobile phones. , 2009, , . | | 6 |
| 97 | Provisioning content distribution networks over shared infrastructure. , 0, , . | | 5 |
| 98 | Popularity-wise proxy caching for interactive streaming media. , 0, , . | | 5 |
| 99 | Using frequency division to reduce MAI in DS-CDMA wireless sensor networks. , 0, , . | | 5 |
| 100 | The design and evaluation of a hybrid sensor network for cane-toad monitoring. , 0, , . | | 5 |
| 101 | Hybrid frame-recursive block-based distortion estimation model for wireless video transmission. , 2008, , . | | 5 |
| 102 | Distributed sparse approximation for frog sound classification. , 2012, , . | | 5 |
| 103 | Molecular circuit-based transmitters and receivers for molecular communication networks. , 2017, , . | | 5 |
| 104 | Detection of persistent signals and its relation to coherent feed-forward loops. Royal Society Open Science, 2018, 5, 181641. | 1.1 | 5 |
| 105 | Analysis and improvement on the robustness of AQM in DiffServ networks. , 2004, , . | | 4 |
| 106 | Dynamic routing of restorable QoS connections in MPLS networks. , 2005, , . | | 4 |
| 107 | On large scale deployment of parallelized file transfer protocol. , 0, , . | | 4 |
| 108 | Event and node identification from a single-pulse transmission in self-powered nanosensor networks. , 2017, , . | | 4 |

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| 109 | Poster Abstract: A Weakly Supervised Tracking of Hand Hygiene Technique. , 2020, , . | | 4 |
| 110 | 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 |
| 111 | Molecular circuit for approximate maximum a posteriori demodulation of concentration modulated signals. , 2018, , . | | 4 |
| 112 | An Enhanced Scalable Probe-Based Multicast Admission Control Scheme. IEICE Transactions on Communications, 2005, E88-B, 3466-3470. | 0.4 | 4 |
| 113 | Traffic engineering for MPLS-based virtual private networks. , 0, , . | | 3 |
| 114 | CROSS-layer QoS-optimized EDCA adaptation for wireless video streaming. , 2010, , . | | 3 |
| 115 | Performance of Multi-Hop Whisper Cognitive Radio Networks. , 2010, , . | | 3 |
| 116 | Poster abstract: Efficient background subtraction for tracking in embedded camera networks. , 2012, , . | | 3 |
| 117 | A message ferrying approach to low-cost backhaul in cellular networks. , 2014, , . | | 3 |
| 118 | Optimal Sampling Strategy Enabling Energy-Neutral Operations at Rechargeable Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 201-208. | 2.4 | 3 |
| 119 | Efficient and Transparent Use of personal device storage in opportunistic data forwarding. Computer Communications, 2016, 73, 47-55. | 3.1 | 3 |
| 120 | A Cooperative Machine Learning Approach for Pedestrian Navigation in Indoor IoT. Sensors, 2019, 19, 4609. | 2.1 | 3 |
| 121 | Improve fairness with adaptive RIO for assured service in DiffServ networks. , 0, , . | | 2 |
| 122 | A QoS provisioning framework for high-speed multimedia wireless networks. , 0, , . | | 2 |
| 123 | Power Optimization in Nano Sensor Networks for Chemical Reactors. , 2007, , . | | 2 |
| 124 | Socially conscious channel selection in 802.11 WLANs for coexistence in a non-cooperative environment. , 2009, , . | | 2 |
| 125 | Efficient background subtraction for tracking in embedded camera networks. , 2012, , . | | 2 |
| 126 | An opportunistic multicast routing protocol for wireless mesh networks. , 2012, , . | | 2 |

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| 127 | Modeling Impact of Sensor Placement for Vision-Based Traffic Monitoring. Transportation Research Record, 2012, 2315, 110-120. | 1.0 | 2 |
| 128 | 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 |
| 129 | QuickFind: Fast and contact-free object detection using a depth sensor. , 2016, , . | | 2 |
| 130 | Residual models and stochastic realization in state-space system identification. , 0, , . | | 1 |
| 131 | Vehicle occlusion model for traffic monitoring. , 2010, , . | | 1 |
| 132 | Video quality prediction in the presence of MAC contention and wireless channel error. , 2010, , . | | 1 |
| 133 | Frame-recursive block-based distortion estimation model for multiple reference frames and motion copy concealment in H.264/AVC. , 2010, , . | | 1 |
| 134 | Frame rate control for video streaming. , 2011, , . | | 1 |
| 135 | Poster abstract: Distributed sparse approximation for frog sound classification. , 2012, , . | | 1 |
| 136 | Projection matrix optimisation for compressive sensing based applications in embedded systems. , 2013, , . | | 1 |
| 137 | Integrating video cameras for ALINEA on-ramp queue length estimation. , 2013, , . | | 1 |
| 138 | VeinDeep: Smartphone unlock using vein patterns. , 2017, , . | | 1 |
| 139 | Using detection theory and molecular computation to understand signal processing in living cells. , 2018, , . | | 1 |
| 140 | Using Biochemical Circuits to Approximately Compute Log-Likelihood Ratio for Detecting Persistent Signals. IEEE Access, 2021, 9, 128996-129010. | 2.6 | 1 |
| 141 | Active Queue Management Algorithms in DiffServ Networks. Ruan Jian Xue Bao/Journal of Software, 2005, 16, 1120. | 0.3 | 1 |
| 142 | Proxy Caching for Interactive Streaming Media. Jisuanji Yanjiu Yu Fazhan/Computer Research and Development, 2006, 43, 594. | 0.2 | 1 |
| 143 | Chemical reaction networks for maximum likelihood estimation of the concentration of signalling molecules. , 2017, , . | | 1 |
| 144 | Maximum a posteriori-based molecular circuit demodulators for spatially partitioned molecular communication receivers. , 2019, , . | | 1 |

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| 145 | A new approach to estimate noise distribution under chaotic background. , 0, , . | | 0 |
| 146 | Analysis and representation of statistical performance of JPEG2000 encoded image over wireless channels. , 0, , . | | 0 |
| 147 | Investigation of JPEG2000 image transmission over next generation wireless networks. , 0, , . | | 0 |
| 148 | A self-organizing scheme for cache consistency. , 0, , . | | 0 |
| 149 | Optimized allocation of distributed applications across local area networks. , 0, , . | | 0 |
| 150 | Two adaptive AQM algorithms for quantitative differentiated services. , 0, , . | | 0 |
| 151 | Welcome Message from the WLN Co-chairs. , 2005, , . | | 0 |
| 152 | A proxy-based rate control strategy of streaming media distribution in heterogeneous access environments. , 2005, , . | | 0 |
| 153 | Welcome Message from the WLN Co-chairs. , 2006, , . | | 0 |
| 154 | Special issue on advances in wireless networks. International Journal of Parallel, Emergent and Distributed Systems, 2008, 23, 289-289. | 0.7 | 0 |
| 155 | Joint optimization of continuity and quality for streaming video. Computer Networks, 2013, 57, 609-621. | 3.2 | 0 |
| 156 | Welcome message from the IEEE goSMART chairs. , 2013, , . | | 0 |