

Chong-Yung Chi

Professor, Institute of Communications Engineering &
Department of Electrical Engineering
National Tsing-Hua University, Hsinchu, Taiwan 30013
Tel: +886 3 5731156, Fax: +886 3 5751787
E-mail: cychi@ee.nthu.edu.tw
<http://www.ee.nthu.edu.tw/cychi/>

EDUCATION:

Ph. D. University of Southern California, Los Angeles, CA, Electrical Engineering, 1983
MS National Taiwan University, Taipei, Taiwan, Electrical Engineering, 1977
BS Tatung Institute of Technology, Taipei, Taiwan, Electrical Engineering, 1975

RESEARCH INTERESTS:

Wireless Communications:

Multiple-Input Multiple-Output (MIMO) coherent/ noncoherent detection and estimation, robust MIMO transmit beamforming, distributed and coordinated communications, physical-layer secret communications, resource allocation and interference management for heterogeneous networks, convex analysis and optimization for signal processing in wireless communications and networking.

Blind Signal Processing:

Blind separation of non-negative dependent sources, blind equalization and system identifications, convex analysis and optimization for blind signal processing with applications to biomedical and hyperspectral image analysis, graph based learning and signal processing, and data security and privacy protection in machine learning.

PROFESSIONAL EXPERIENCE:

8/02 ~7/05	Chairman, Institute of Communications Engineering, National Tsing Hua University (NTHU), Hsinchu, Taiwan
8/99 ~present	Professor, Institute of Communications Engineering, NTHU, Hsinchu, Taiwan
8/89 ~present	Professor, Department of Electrical Engineering, NTHU, Hsinchu, Taiwan
10/88 ~7/89	Visiting Specialist, Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan
7/83 ~9/88	Member of Technical Staff, Jet Propulsion Laboratory (JPL), Pasadena, California

PROFESSIONAL ACHIEVEMENTS & HONORS:

I. Society Membership

- **Fellow** of the Institute of Electrical and Electronics Engineers (**2020 IEEE Fellow**) for contributions to *convex analysis and optimization for blind source separation*
- **Fellow** of the Asia-Pacific Artificial Intelligence Association (**2022 AAIA Fellow**)
- **Active member** of the Chinese Institute of Electrical Engineering

II. Journal Editor

1/12 ~12/15 Associate Editor of IEEE Trans. Signal Processing (**Impact factor: 5.4**)
6/06 ~5/10 Associate Editor of IEEE Signal Processing Letters (**Impact factor: 3.9**)
1/08 ~12/09 Associate Editor of IEEE Trans. Circuits and Systems I (**Impact factor: 5.1**)

6/05 ~5/08	Member of Editorial Board of Elsevier Signal Processing (Impact factor: 4.4)
1/06 ~12/07	Associate Editor of IEEE Trans. Circuits and Systems II (Impact factor: 4.4)
5/01 ~4/06	Associate Editor of IEEE Trans. Signal Processing (Impact factor: 5.4)
7/03 ~12/05	Editorial Board Member of JASP (The EURASIP) (Impact factor: 1.759)
2006	Guest Editor, JASP special issue, "Multisensor Processing for Signal Extraction and Applications"

III. Conference Chair/Technical Program Committee (TPC) Member/ Society Technical Committee Member

2023	TPC member, IEEE International Conference on Frontiers of Signal Processing (ICFSP 2023)
2023	General Co-Chair, Asia Conference on Communications, Signal Processing and Information Technology (CSPIT 2023)
2023	TPC member, IEEE International Conference on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP-2023)
2023	General Chair, 5th International Conference on Communications, Information System and Computer Engineering (CISCE-2023)
2023	TPC member, IEEE International Conference on Communications (ICC-2023)
2022	General Chair, International Conference on Intelligent Transportation and Smart Cities (ITSC-2022)
2022	Chair, 2nd International Conference on Digital Management, Information Systems and Technologies (DMIST-2022)
2022	TPC member, IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM-2022)
2022	TPC member, IEEE International Conference on Communications (ICC-2022)
2021	TPC member, IEEE International Conference on Communications (ICC-2021)
2021	Program Chair of 2021 3rd International Conference on Advances in Computer Technology, Information Science and Communications (CTISC-2021)
2020	TPC member, IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM-2020)
2020	TPC member, IEEE International Conference on Communications (ICC-2020)
2019	TPC member, IEEE International Conference on Communications (ICC-2019)
2013~2018	<i>Sensor Array and Multichannel Technical Committee (SAM-TC) Member, IEEE Signal Processing Society.</i>
2018	TPC Member, 2018 IEEE Seventh International Conference on Communications and Electronics (IEEE ICCE-2018).
2018	TPC Member, IEEE International Conference on Communications (ICC-2018).
2018	TPC Member, 26th European Signal Processing Conference (EUSIPCO-2018).
2018	TPC Member, 10th IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM-2018).
2018	TPC Member, 2018 International Conference on Sensor Networks and Signal Processing (SNSP-2018).
2017	TPC Member, 22nd International Conference on Digital Signal Processing (DSP-2017).
2017	TPC Member, 2017 IEEE Information Theory Workshop (ITW-2017).
2017	TPC Member, IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP-2017).
2011~2016	<i>Signal Processing for Communications and Networking Technical Committee (SPCOM-TC) Member, IEEE Signal Processing Society.</i>
2016	TPC Member, IEEE Global Conference on Signal and Information Processing (GlobalSIP-2016).
2016	TPC Member, IEEE International Conference on Ubiquitous Wireless Broadband (ICUWB-2016).
2016	TPC Member, 2016 IEEE 17th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2016).
2016	Area Chair of Track <i>Sensor Array, Multichannel and Communication Signal</i>

	<i>Processing</i> , 2016 European Signal Processing Conference (EUSIPCO-2016).
2015	TPC Member, IEEE Global Conference on Signal and Information Processing (GlobalSIP-2015).
2015	TPC Member, IEEE International Conference on Communications - Signal Processing for Communications Symposium (ICC'15 (05) SPC).
2015	TPC Member, IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2015).
2014	TPC Member, IEEE International Conference on Communications - Communication Theory Symposium (ICC'15 (04) CTS).
2014	TPC Member, Globecom 2014 - Signal Processing for Communications Symposium.
2014	TPC Member, IEEE Sensor Array and Multichannel Signal Processing (SAM) Workshop 2014.
2014	TPC Member, IEEE/CIC ICC 2014 Symposium on Signal Processing for Communications.
2014	TPC Member, IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2014).
2013	TPC Member, Signal Processing for Communications (SPC) Symposium, ChinaCOM 2013.
2013	TPC Member, 2nd IEEE/CIC International Conference on Communications in China: Signal Processing for Communications (ICC 2013-SPC Symposium).
2013	TPC Member, IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2013).
2012	TPC Member, IEEE International Conference on Information and Automation & International Symposium on Biomedical Engineering (ICIA-2012).
2012	TPC Member, IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2012).
2012	TPC Member, IEEE Workshop on Statistical Signal Processing (SSP'12).
2011	Track Chair for MIMO, Signal Processing, and Smart in Antennas, 2011 IEEE Radio and Wireless Symposium in Radio and Wireless Week (RWW) 2011.
2011	TPC Member, IEEE Workshop on Statistical Signal Processing (SSP'11).
2011	TPC Member, IEEE International Conference on Communication Technology (ICCT'2011).
2011	TPC Member, European Conference on Signal Processing (EUSIPCO-2011).
2011	TPC Member, The International Conference on Wireless Communications and Signal Processing (WCSP-2011).
2010	TPC Member, European Conference on Signal Processing (EUSIPCO-2010).
2005~2010	<i>Signal Processing Theory and Methods Technical Committee (SPTM-TC), IEEE Signal Processing Society.</i>
2010	TPC Member, Wireless Communications and Signal Processing (WCSP) track at the 19th International Conference on Computer Communications and Networks (ICCCN-2010).
2010	TPC Member of The International Conference on Wireless Communications and Signal Processing (WCSP-2010).
2010	TPC Member of APSIPA Annual Summit Conference 2010 "Wireless Communications & Networking" Track.
2009	Lead Co-Chair of Signal Processing for Communications (SPC) Symposium, ChinaCOM 2009.
2009	TPC Member of The International Conference on Wireless Communications and Signal Processing (WCSP-2009).
2009	TPC Member, IEEE Workshop on Statistical Signal Processing (SSP'09).
2009	TPC Member of Third IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (IEEE CAMSAP 2009).
2009	TPC Member, European Conference on Signal Processing (EUSIPCO-2009).
2009	Wireless Communications and Signal Processing (WCSP) track at the 18th International Conference on Computer Communications and Networks (ICCCN-2009).
2008	Co-Chair of SPC Symposium, ChinaCOM 2008.

2008	TPC Member, EUSIPCO 2008.
2007	TPC Member, IEEE Workshop on Statistical Signal Processing (SSP'07).
2007	TPC Member, 2007 Sixth International Conference on Information, Communications and Signal Processing (ICICS-2007).
2007	TPC Member of Second IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (IEEE CAMSAP-2007).
2006	TPC Member, IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'06).
2006	TPC Member of the ICC 2006 Wireless and Ad-Hoc Sensor Networks.
2006	Member of International Program Committee and Program Committee of the 6th International Symposium on Independent Component Analysis and Blind Source Separation (ICA-2006).
2006	TPC Member of 2006 International Wireless Communications and Computing Conference (IWCCC-2006).
2005	TPC Member of First IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (IEEE CAMSAP 2005).
2005	TPC Member of Emerging Networks, Technologies & Standards Symposium, IEEE WirelessCom 2005.
2005	Track TPC Member of 2005 International Conference on Communications, Circuits and Systems (ICCCAS-2005).
2004	Technical Committee Member, IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2004).
2003	Program Committee Member, International Conference on Signal Processing (ICSP-2003).
2003	Member of International Program Committee of the 4th International Symposium on Independent Component Analysis and Blind Source Separation (ICA-2003).
2003	Technical Committee Member, IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'03).
7/01~6/03	Chair of Information Theory Chapter of IEEE Taipei Section.
2001	Co-organizer and a general co-chairman of 2001 IEEE SP Workshop on Signal Processing Advances in Wireless Communications (SPAWC-2001).
2001	Member of International Advisory Committee of TENCON'01.
2001	TPC Member, IEEE Workshop on Statistical Signal Processing (SSP'01).
1999	Technical Committee Member, IEEE Signal Processing Workshop on Higher-Order Statistics (HOS'99).
1997	Technical Committee Member, IEEE Signal Processing Workshop on Higher-Order Statistics (HOS'97).

IV. Honors

- 國立清華大學電機工程學系榮譽退休教授(111年8月起)
- 科技部109年度「傑出研究獎」
- 中國電機工程學會109年度傑出電機工程教授獎
- **MOST Young Scholar Fellowship under Einstein Program: Chia-Hsiang Lin** (one of my former PhD students), Assistant Professor National Cheng Kung University (NCKU), Principal Investigator, Advanced Blind Source Separation and Hyperspectral Super-resolution Imaging via Convex Geometry and Big Data Optimization, from Aug. 2018 to July 2023.
- **2018 IEEE Signal Processing Society Best Paper Award: Kun-Yu Wang, Anthony Man-Cho So, Tsung-Hui Chang, Wing-Kin Ma, and Chong-Yung Chi**, "Outage Constrained Robust Transmit Optimization for Multiuser MISO Downlinks: Tractable Approximations by Conic Optimization," IEEE Trans. Signal Processing, Vol. 62, No. 21, November 2014.
- **Best PhD Dissertation Award of IEEE/GRS-S (2016): Chia-Hsiang Lin** (one of my former Ph.D. students) won the best doctoral dissertation award of IEEE Geoscience and Remote Sensing Society (GRSS) Taipei Chapter for the PhD dissertation, "Simplex geometry based non-negative blind source separation," conferred in IEEE ICSANE, Nov. 2016.
- **Outstanding PhD Dissertation Award of IPPR/CVGIP (2016): Chia-Hsiang Lin** (one of my former Ph.D. students) won the outstanding doctoral dissertation award of IPPR/CVGIP for the PhD

dissertation, “Simplex geometry based non-negative blind source separation,” conferred in IPPR/CVGIP, August 2016.

- **IEEE Geoscience and Remote Sensing Society Taipei Chapter Best Thesis Award for 2013:** ArulMurugan Ambikapathi (one of my former Ph.D. students) won the best thesis award for his Ph.D. thesis, “Chance constrained robust unmixing algorithms and estimation of number of endmembers in hyperspectral images.”
- **Best Poster Award:** Wei-Chiang Li, Tsung-Hui Chang, Che Lin and Chong-Yung Chi, “Outage constrained distributed multicell coordinated beamforming: A dynamic pricing scheme,” presented in International Workshop on Mathematical Issues in Information Sciences (MIIS), Xi'an, China, July 7-13, 2012.
- **Best Paper Award:** Tsung-Han Chan, Wing-Kin Ma, Arulmurugan Ambikapathi and Chong-Yung Chi, “Robust endmember extraction using worst-case simplex volume maximization,” in Proc. Third IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), Lisbon, Portugal, June 6-9, 2011.
- **Outstanding Doctoral Dissertation Award of IPPR (2010):** Tsung-Han Chan (one of my former Ph.D. students) won the outstanding doctoral dissertation award of IPPR for the paper: “Convex analysis based non-negative blind source separation for biomedical and hyperspectral image analysis” in IPPR, 2010.
- **Best Doctoral Dissertation Award of CID & ORSTW (2010):** Tsung-Han Chan (one of my former Ph.D. students) won the best doctoral dissertation award of CID & ORSTW for the paper: “Convex analysis based non-negative blind source separation for biomedical and hyperspectral image analysis,” in CID & ORSTW, 2010.
- **Best Student Paper Award:** Chun-Hsien Peng (one of my former Ph.D. students) won the best student paper award for the paper: Chun-Hsien Peng, Chong-Yung Chi, I-Chieh Chang and Chia-Hsing Kuo, “A blind space-time decoding algorithm by Kurtosis maximization for the down-link of MC-CDMA systems,” 2005 IEEE International Conference on Information, Communications and Signal Processing (ICICS-2005), Bangkok, Thailand, Dec. 6-9, Dec. 2005.
- **NSC Class A Research Award 2005:** (within top 3% in Signal Processing Community in Taiwan)

V. Invited Plenary Talks at International Workshops/ Symposia/ Conferences

- 2023 9th EAI International Conference on Intelligent IoT, Nanjing, China, Oct. 27-29, 2023 (EAI IOTAAS, 2023)
Topic: Convergence of Convex Optimization & Artificial Intelligence
- 2023 5th International Conference on Communications, Information System and Computer Engineering, Guangzhou, China, Apr. 14-16, 2023 (CISCE, 2023).
Topic: Hyperspectral Image Restoration Based on Deep Image Prior and Least Favorable Distribution
- 2022 7th International Conference on Frontiers of Signal Processing, Paris, France, Sep. 7-9, 2022 (ICFSP 2022).
Topic: Unsupervised Hyperspectral Denoising Based on Deep Image Prior and Least Favorable Distribution
- 2021 10th International Conference on Software and Information Engineering and 2021 4th International Conference on Network Technology, Cairo, Egypt, Nov. 12-14, 2021 (ICSIE and ICNT 2021).
Topic: Global Secrecy Energy Efficiency Maximization in CR Networks with Untrusted Secondary Users
- 2021 3rd International Conference on Advances in Computer Technology, Information Science and Communications and 2021 3rd International Conference on Advances in Computer Vision, Image and Virtualization, Shanghai, China, April 23-25, 2021 (CTISC and CVIV 2021).
Topic: Secrecy Energy Efficiency in Cognitive Radio Networks with Untrusted Secondary Users
- 2021 IEEE International Conference on Information Communication and Software Engineering and 2021 6th International Conference on Mathematics and Artificial Intelligence, Chengdu, China, March 19-21, 2021 (ICICSE and ICMAI 2021).
Topic: Secrecy Energy Efficiency in Cognitive Radio Networks with Untrusted Secondary Users
- 2020 12th International Conference on Communication Software and Networks, Chongqing, China, June 12-15, 2020 (ICCSN 2020).

- Topic: Local-Density Subspace Distributed Clustering for High-Dimensional Data
- 2018 3rd International Conference on Communication, Image and Signal Processing, Sanya, China, Nov. 16-18, 2018 (CCISP 2018).
Topic: Convex Optimization for Signal Processing and Communications: From Fundamentals to Applications
- 2018 International Conference on Sensor Networks and Signal Processing, Xi'An, China, Oct. 28-31, 2018 (SNSP 2018).
Topic: Super-Resolution Image via Hyperspectral and Multispectral Data Fusion Using Big-data Convex Optimization
- 5th International Conference on Big Data Analysis and Data Mining, Rome, Italy, June 20-21, 2018 (Data Mining 2018).
Topic: A Convex Optimization Based Coupled Non-Negative Matrix Factorization Algorithm for Hyperspectral and Multispectral Data Fusion
- 2018 2nd International Conference on Data Mining, Communications and Information Technology, Shanghai, China, May 25-27, 2018 (DMCIT 2018).
Topic: Blind Deconvolution Based Super-Resolution Imaging with ROSIS/HYDICE/AVIRIS Sensors via Big Data Convex Optimization
- The 27th Wireless and Optical Communications Conference, National Dong Hwa University, Hualien, Taiwan, April 30- May 1, 2018 (WOCC 2018).
Topic: Blind Deconvolution Based Super-Resolution Imaging with ROSIS/HYDICE/AVIRIS Sensors via Big Data Convex Optimization
- The International Mathematical Meeting and the Annual Meeting of the Taiwanese Mathematical Society, National University of Kaohsiung, Kaohsiung, Taiwan, Dec. 19-20, 2015.
Topic: Outage Constrained Robust Transmit Optimization for Multiuser MISO Downlinks: Tractable Approximations by Conic Optimization
- IEEE China Summit and International Conference on Signal and Information Processing, Beijing, China, July 6-10, 2013 (IEEE ChinaSIP 2013).
Topic: Convex Geometric Analysis for Non-Negative Blind Source Separation
- 2nd International Symposium on IT Convergence Engineering, POSTECH, Pohang, Korea, August 19-20, 2010 (ISITCE 2010).
Topic: Non-Negative Blind Source Separation for Biomedical Image Analysis
- The International Workshop on Optimization and Signal Processing, Chinese University of Hong Kong, Hong Kong, Dec. 19-21, 2007.
Topic: Non-Negative Least-correlated Component Analysis for Separation of Dependent Sources

VI. Invited Short Courses

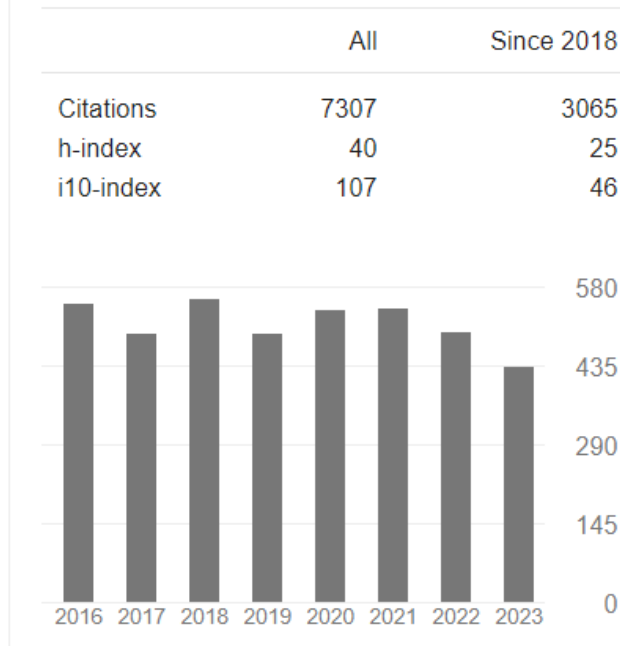
1. **Beijing University of Posts and Telecommunications (BUPT)**, Beijing, China (2022/07/04-2022/07/22) : Convex Optimization from Fundamentals to Applications
2. **Beijing University of Posts and Telecommunications (BUPT)**, Beijing, China (2021/06/28-2021/07/09): Convex Optimization from Fundamentals to Applications
3. **Xidian University (XDU)**, Xi'an, China (2019/08/05-2019/08/30): Convex Optimization for Communications and Signal Processing
4. **Beijing University of Posts and Telecommunications (BUPT)**, Beijing, China (2019/07/04-2019/07/22): Convex Optimization from Fundamentals to Applications
5. **Shandong Normal University (SDNU)**, Jinan, China (2018/08/05-2018/08/25): Convex Optimization from Fundamentals to Applications
6. **Beijing University of Posts and Telecommunications (BUPT)**, Beijing, China (2018/06/30-2018/07/21): Convex Optimization from Fundamentals to Applications
7. **Shandong University (SDU)**, Jinan, China (2017/10/30-2017/11/14): Convex Optimization from Fundamentals to Applications
8. **Beijing Jiaotong University (BJTU)**, Beijing, China (2017/08/05-2017/08/26): Convex Optimization from Fundamentals to Applications
9. **Beijing University of Posts and Telecommunications (BUPT)**, Beijing, China (2017/07/01-2017/07/22): Convex Optimization from Fundamentals to Applications
10. **BUPT**, Beijing, China (2016/07/14-2016/07/28): Convex Optimization from Fundamentals to

Applications

11. **University of Electronic Science and Technology of China (UESTC)**, Chengdu, China (2015/08/30-2015/09/13): *Convex Optimization from Fundamentals to Applications*
12. **Sun Yat-Sen University**, Guangzhou, China (2015/08/03-2015/08/14): *Convex Optimization from Fundamentals to Applications*
13. **BJTU**, Beijing, China (2015/07/06-2015/07/20): *Convex Optimization from Fundamentals to Applications*
14. **UESTC**, Chengdu, China (2014/09/01-2014/09/19): *Convex Optimization from Fundamentals to Applications*
15. **Xiamen University**, Fujian Province, China (2013/12/5-2013/12/19): *Convex Optimization from Fundamentals to Applications*
16. **UESTC**, Chengdu, China (2013/11/11-2013/11/22): *Convex Optimization from Fundamentals to Applications*
17. **BJTU**, Beijing, China (2013/7/12-2013/7/25): *Convex Optimization from Fundamentals to Applications*
18. **Tsinghua University**, Beijing, China (2012/8/20-2012/8/31): *The Optimization Theories and Methods with Applications in Aerospace Information Transmission and Processing*
19. **Tianjin University**, Tianjin, China (2011/8/22-2011/9/2): *Convex Optimization for Communications and Signal Processing*
20. **Tsinghua University**, Beijing, China (2010/8/23-2010/9/3): *Convex Optimization for Communications and Signal Processing*
21. **SDU**, Jinan, China (2010/1/5-2010/1/18): *Convex Optimization for Communications and Signal Processing*

PUBLICATIONS: (Total citations: 7307 citations and 40 h-index papers by Google Scholar by 2023/10/25)

More than 240 technical papers published, including more than 90 journal papers (mostly in *IEEE Trans. Signal Processing*), 3 book chapters and more than 140 peer-reviewed conference papers, as well as 2 graduate-level textbooks, *Blind Equalization and System Identification* (approx. 480 pages), Springer-Verlag, 2006, and a new graduate-level textbook book, *Convex Optimization for Signal Processing and Communications: From Fundamentals to Applications*, (432 pages), CRC Press, 2017. The details are as follows:



A-1. Journal Papers: (Total citations: 5951 by Google Scholar)

- [1] C.-H. Lin, Y. Liu, C.-Y. Chi, C.-C. Hsu, H. Ren, and Tony Q. S. Quek, "Hyperspectral tensor completion using low-rank modeling and convex functional analysis," *IEEE Trans. Neural Networks and Learning Systems*, pp. 1-15, Feb. 2023. **Citations: 3 (Impact factor: 10.4) (JCR Journal Ranking: 14/145)**

- [2] K. F. Niresi and C.-Y. Chi, "Robust hyperspectral inpainting via low-rank regularized untrained convolutional neural network," *IEEE Geoscience and Remote Sensing Letters*, vol. 20, pp. 1-5, Jan. 2023. **Citations: 1 (Impact factor: 4.8) (JCR Journal Ranking: 74/275)**
- [3] Y. Li, S. Wang, C.-Y. Chi, and T. Q. S. Quek, "Differentially private federated learning in edge networks: The perspective of noise reduction," *IEEE Network*, vol. 36, no. 5, pp. 167-172, Sept./Oct. 2022. **Citations: 2 (Impact factor: 9.3) (JCR Journal Ranking: 4/54)**
- [4] K. F. Niresi and C.-Y. Chi, "Unsupervised hyperspectral denoising based on deep image prior and least favorable distribution," *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 15, pp. 5967-5983, Aug. 2022. **Citations: 9 (Impact factor: 5.5) (JCR Journal Ranking: 58/275)**
- [5] W.-B. Wang, Y. Lu, and C.-Y. Chi, "Secrecy energy efficiency in cognitive radio networks with untrusted secondary users," *IEEE Trans. Green Communications and Networking*, vol. 5, no. 1, pp. 216-230, Mar. 2021. **Citations: 3 (Impact factor: 3.9) (JCR Journal Ranking: 72/158)**
- [6] S. A. Bhat, I. B. Sofi, and C.-Y. Chi, "Edge computing and its convergence with blockchain in 5G and beyond: Security, challenges, and opportunities," *IEEE Access*, vol. 8, pp. 205340-205373, Nov. 2020. **Citations: 53 (Impact factor: 3.9) (JCR Journal Ranking: 72/158)**
- [7] Y.-A. Geng, Q.-Y. Li, M.-F. Liang, C.-Y. Chi, J. Tan and H. Huang, "Local-density subspace distributed clustering for high-dimensional data," *IEEE Trans. Parallel and Distributed Systems*, vol. 31, no. 8, pp. 1799-1814, Aug. 2020. **Citations: 8 (Impact factor: 5.3) (JCR Journal Ranking: 18/111)**
- [8] Y.-R. Syu, C.-H. Lin, C.-Y. Chi, "An outlier-insensitive unmixing algorithm with spatially varying hyperspectral signatures," *IEEE Access*, vol. 7, pp. 15086-15101, Jan. 2019. **Citations: 5 (Impact factor: 3.9) (JCR Journal Ranking: 72/158)**
- [9] C.-H. Lin, C.-Y. Chi, L. Chen, D. J. Miller, and Y. Wang, "Detection of sources in non-negative blind source separation by minimum description length criterion," *IEEE Trans. Neural Networks and Learning Systems*, vol. 29, no. 9, pp. 4022-4037, Sept. 2018. **Citations: 26 (Impact factor: 10.4) (JCR Journal Ranking: 14/145)**
- [10] C.-H. Lin, R. Wu, W.-K. Ma, C.-Y. Chi, and Y. Wang, "Maximum volume inscribed ellipsoid: A new simplex-structured matrix factorization framework via facet enumeration and convex optimization," *SIAM Journal on Imaging Sciences*, vol. 11, no. 2, pp. 1651-1679, Jul. 2018. **Citations: 42 (Impact factor: 2.1) (JCR Journal Ranking: 109/145)**
- [11] C.-H. Lin, F. Ma, C.-Y. Chi, and C.-H. Hsieh, "A convex optimization-based coupled nonnegative matrix factorization algorithm for hyperspectral and multispectral data fusion," *IEEE Trans. Geoscience and Remote Sensing*, vol. 56, no. 3, pp. 1652-1667, Mar. 2018. **Citations: 89 (Impact factor: 8.2) (JCR Journal Ranking: 27/275)**
- [12] G.-X. Xu, C.-H. Lin, W.-G. Ma, S.-Z. Chen, and C.-Y. Chi, "Outage constrained robust hybrid coordinated beamforming for massive MIMO enabled heterogeneous cellular networks," *IEEE Access*, vol. 5, pp. 13601-13616, Mar. 2017. **Citations: 21 (Impact factor: 3.9) (JCR Journal Ranking: 72/158)**
- [13] X. Xu, X. Chen, M. Zhao, S. Zhou, C.-Y. Chi, and J. Wang, "Power-efficient distributed beamforming for full-duplex MIMO relaying networks," *IEEE Trans. Vehicular Technology*, vol. 66, no. 2, pp. 1087-1103, Feb. 2017. **Citations: 27 (Impact factor: 6.8) (JCR Journal Ranking: 39/275)**
- [14] W. Xu, L. Wang, and C.-Y. Chi, "A simplified GCS-DCSK modulation and its performance optimization," *International Journal of Bifurcation and Chaos*, vol. 26, no. 13, pp. 1650213-1-1650213-11, Dec. 2016. **Citations: 8 (Impact factor: 2.2) (JCR Journal Ranking: 39/107)**
- [15] A. Ambikapathi, T.-H. Chan, C.-H. Lin, F.-S. Yang, C.-Y. Chi, and Y. Wang, "Convex-optimization-based compartmental pharmacokinetic analysis for prostate tumor characterization using DCE-MRI," *IEEE Trans. Biomedical Engineering*, vol. 63, no. 4, pp. 707-720, Apr. 2016. **Citations: 13 (Impact factor: 4.6) (JCR Journal Ranking: 34/96)**
- [16] C.-H. Lin, C.-Y. Chi, Y.-H. Wang, and T.-H. Chan, "A fast hyperplane-based minimum-volume enclosing simplex algorithm for blind hyperspectral unmixing," *IEEE Trans. Signal Processing*, vol. 64, no. 8, pp. 1946-1961, Apr. 2016. **Citations: 66 (Impact factor: 5.4) (JCR Journal Ranking: 61/275)**
- [17] C.-H. Lin, W.-K. Ma, W.-C. Li, C.-Y. Chi, and A. Ambikapathi, "Identifiability of the simplex volume minimization criterion for blind hyperspectral unmixing: The no pure-pixel case," *IEEE Trans. Geoscience and Remote Sensing*, vol. 53, no.10, pp. 5530-5546, Oct. 2015. **Citations: 111 (Impact factor: 10.4) (JCR Journal Ranking: 14/145)**

factor: 8.2) (JCR Journal Ranking: 27/275)

- [18] W.-C. Li, T.-H. Chang, and C.-Y. Chi, "Multicell coordinated beamforming with rate outage constraint–Part II: Efficient approximation algorithms," IEEE Trans. Signal Processing, vol. 63, no. 11, pp. 2763-2778, Jun. 2015. **Citations: 34 (Impact factor: 5.4) (JCR Journal Ranking: 61/275)**
- [19] W.-C. Li, T.-H. Chang, and C.-Y. Chi, "Multicell coordinated beamforming with rate outage constraint–Part I: Complexity analysis," IEEE Trans. Signal Processing, vol. 63, no. 11, pp. 2749-2762, Jun. 2015. **Citations: 24 (Impact factor: 5.4) (JCR Journal Ranking: 61/275)**
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- [21] W.-K. Ma, J. M. Bioucas-Dias, P. Gader, T.-H. Chan, N. Gillis, A. Plaza, A. Ambikapathi, and C.-Y. Chi, "A signal processing perspective on hyperspectral unmixing: Insights from remote sensing," IEEE Signal Processing Magazine, vol. 31, no. 1, pp. 67-81, January 2014. **Citations: 476 (Impact factor: 14.9) (JCR Journal Ranking: 5/275)**
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