

# RESUME

## 簡介(Biography)



Chih-Ta Yen received PhD degree from the Department of Electrical Engineering at National Cheng Kung University, Taiwan, in 2008. He was being a professor at the Department of Electrical Engineering, National Formosa University, in 2016. He is currently an Associate Professor in the area of artificial intelligence applications, multiple access communications and optical design technologies at the Department of Electrical Engineering, National Taiwan Ocean University, Keelung, Taiwan. His major interests are in the areas of multiuser communication systems, machine learning, deep learning and optical design. Now he has published more than 70 journal papers in the field of electrical engineering.

## 學歷(Education)

- ※ 1992~1997 Ph.D. in Department of Electrical Engineering, National Cheng Kung University, Taiwan (R.O.C)
- ※ 1989~1991 Master in Department of Electrical Engineering, National Taiwan Ocean University, Taiwan (R.O.C)
- ※ 1981~1985 Bachelor in Department of Electrical Engineering, Tamkang University, Taiwan (R.O.C)

## 經歷(Experience)

- Associate Professor, Department of Electrical Engineering, National Taiwan Ocean University, Taiwan (R.O.C) (February 109 to present)
- Professor, Department of Electrical Engineering, National Formosa University, Taiwan (R.O.C) (February 105 to February 109)
- Associate Professor, Department of Electrical Engineering, National Formosa University, Taiwan (R.O.C) (July 101 to February 105)
- Assistant Professor, Department of Electrical Engineering, National Formosa University, Taiwan (R.O.C) (August 98 to July 101)
- Prospective Sensing Technology and Application Department Engineer, Industrial Technology Research Institute, Taiwan (R.O.C) (October 97 to July 98)

- Postdoctoral researcher, Department of Electrical Engineering, National Cheng Kung University, Taiwan (R.O.C) (August 97 to October 97)

### 著作列表(Publications Lists)

#### A. 期刊論文(Journal Paper)

1. \***Chih-Ta Yen**, and Guan-Yu Chen, “A Deep Learning-Based Person Search System for Real-World Camera Images” Journal of Internet Technology Accept on Dec. 29, 2021.
2. \***Chih-Ta Yen**, Jia-Xian Liao, and Yi-Kai Huang, “Feature Fusion of a Deep-Learning Algorithm into Wearable Sensor Devices for Human Activity Recognition” Sensors, vol. 21, no. 24, Dec. 11, 2021.
3. \***Chih-Ta Yen**, and Shih-Cyuan Jin, “Freeform Surface Lens Design Using Genetic Algorithm with Acrylic Material for Reducing Aberrations in Multifocal Artificial Intraocular Lens to Enhance Image Sensing Quality” Sensors and Materials, Accept on Dec. 2, 2021.
4. \***Chih-Ta Yen**, Jia-Xian Liao, and Yi-Kai Huang, “Applying a deep learning network in continuous physiological parameter estimation based on photoplethysmography sensor signals” IEEE SENSORS JOURNAL, Date of Publication: Nov. 13, 2021.
5. \***Chih-Ta Yen**, Jia-Xian Liao and Yi-Kai Huang, “Using PPG Signals with Modified LRCN Model to Determine Blood Pressure and Heart Rate,” CMC-Computers, Materials & Continua, Accepted on Sep., 2021.
6. C. –M. Tsai, J. -Y. Li, \*P. Han and \***Chih-Ta Yen**, "Design and Evaluation of Optical See-Through Head-Mounted Display With Wide FOV Based on Dihedral Corner Reflector Array," in IEEE Access, vol. 9, pp. 118977-118984, 2021, doi: 10.1109/ACCESS.2021.3107476.
7. \***Chih-Ta Yen**, Sheng-Nan Chang, Jia-Xian Liao and Yi-Kai Huang, “A deep learning-based continuous blood pressure measurement by dual photoplethysmography signals,” CMC-Computers, Materials & Continua, vol. 70, no. 2, pp. 2937-2952, 2022.
8. \***Chih-Ta Yen**, Sheng-Nan Chang and Cheng-Yang Cai, “Development of a continuous blood pressure measurement and cardiovascular multiindicator platform for Asian populations by using a back propagation neural network and dual photoplethysmography sensor signals acquisition technology,” Journal of Nanomaterials, Vol. 2021, May 29, 2021.
9. \***Chih-Ta Yen**, Sheng-Nan Chang and Cheng-Hong Liao, “Deep learning algorithm evaluation of hypertension classification in less photoplethysmography signals conditions,” Measurement and Control, First Published March 26, 2021.

10. \***Chih-Ta Yen**, Jia-Xian Liao and Yi-Kai Huang, “Human Daily Activity Recognition Performed Using Wearable Inertial Sensors Combined with Deep Learning Algorithms,” *IEEE Access*, vol.8, pp. 174105-174114, Sept. 22, 2020.
11. \***Chih-Ta Yen** and Jia-De Lin, “Human body activity recognition using wearable inertial sensors integrated with a feature extraction–based machine-learning classification algorithm,” *Journal of Engineering Manufacture*, First Published July 20, 2020.
12. \***Chih-Ta Yen** and Chuan-Yuan Hong, “Integrating optical design with Taguchi method in a remote wireless light charging system,” *Microsystem Technologies*, Published: 28 April 2020.
13. \***Chih-Ta Yen** and Jia-Ming Zhang, “The vehicle zoom ultra wide angle lens design by using liquid lens technology,” *Microsystem Technologies*, pp. 1-14, First Online: 12 August 2019.
14. \***Chih-Ta Yen** and Ping-Chi Chuang, “Application of a neural network integrated with the internet of things sensing technology for 3D printer fault diagnosis,” *Microsystem Technologies*, pp.1-11, First Online: 11 February 2019.
15. \***Chih-Ta Yen** and Cheng-Hao Ke, “Improving Tracking Error by Dead Reckoning and RSSI Technologies with a Fuzzy Fusion Scheme in Indoor Location,” *Microsystem Technologies*, Volume 24, Issue 10, pp 4025–4033, October 2018. (SCI, IF:1.513, Rank: 97/148, Q3, 2018) GERMANY (FED REP GER)
16. \***Chih-Ta Yen**, Jen-Fa Huang and Wen-Zong Zhang, “Hiding Stealth Optical CDMA Signals in Public BPSK Channels for Optical Wireless Communication,” *Applied Sciences*, vol.8, no. 10, pp. 1731, Sept. 2018.
17. \***Chih-Ta Yen**, Zong-Wei Lai, Yu-Ting Lin and Hsu-Chih Cheng, “Optical Design with Narrow Band Imaging for Capsule Endoscope,” *Journal of Healthcare Engineering*, vol. 2018, Article ID 5830759, 11 pages, 10 January 2018.
18. \***Chih-Ta Yen** and Ming-Feng Cheng, “A Study of Fuzzy Control with Ant Colony Algorithm used in Mobile Robot for Shortest Path Planning and Obstacle Avoidance,” *Microsystem Technologies*, Volume 24, Issue 1, pp 125–135, January 2018.
19. \***Chih-Ta Yen**, Jen-Fa Huang and Ying-Wei Tu, “Crosstalk Suppression by Threshold Adjustment of Codecs in Optical CDMA Network,” IEEE International Conference on Applied System Innovation 2017 (IEEE ICASI 2017), 24 July, 2017.
20. \***Chih-Ta Yen** and Guan-Jie Huang, “Using Optical Code-Division Multiple-Access Techniques in Michelson Interferometer Vibration Sensor Networks,” *Journal of Vibroengineering*, vol. 19, no. 1, pp. 343-354, February 2017.
21. \***Chih-Ta Yen** and Wen-Bin Chen, “A Study of Dispersion Compensation of Polarization Multiplexing-Based OFDM-OCDMA for Radio-over-Fiber Transmissions,” *Sensors*, vol. 16, no. 9, pp. 1-16, September 7, 2016.
22. \***Chih-Ta Yen** and Guan-Jie Huang, “Optical Steganography Transmission of Optical

- CDMA Signals Over a Public BPSK Channel,” *Engineering Computations*, vol. 33, issue: 6, pp.1810-1824, August 2016.
23. \***Chih-Ta Yen** and Yi-Jie Huang, “Frequency domain digital watermark recognition using image code sequences with a back-propagation neural network,” *Multimedia Tools and Applications*, Volume 75, Issue 16, pp 9745–9755, August 2016. DOI 10.1007/s11042-015-2718-y.
  24. \***Chih-Ta Yen** and Chih-Ming Chen, “A study of three-dimensional optical code-division multiple-access for optical fiber sensor networks,” *Computers and Electrical Engineering*, vol. 49, pp. 136–145, January 2016.
  25. \***Chih-Ta Yen** and Jhe-Wen Ye, “Aspherical Lens Design Using Hybrid Neural-Genetic Algorithm of Contact Lenses,” *Applied Optics*, vol. 54, no. 28, pp. E88-E93, Oct. 2015.
  26. \***Chih-Ta Yen** and Jhe-Wen Ye, “Optical design of contact lenses using principal component analysis method with Taguchi method,” *Applied Mathematical Modelling*, vol. 39, no. 19, pp. 5778-5782, Oct. 2015.
  27. Yi-Chin Fang, \***Chih-Ta Yen** and Chin-Hsien Chu, “Study of Optical Design of Three-Dimensional Digital Ophthalmoscopes,” *Applied Optics*, vol. 54, issue 28, pp. E224-E234, Oct. 2015.
  28. \***Chih-Ta Yen** and Jyun-Min Shih, “A Study of Optical Design on 9x Zoom Ratio by Using a Compensating Liquid Lens,” *Applied Sciences*, vol.5, no. 3, pp. 608-621, Sept. 2015.
  29. \***Chih-Ta Yen** and Shih-Cyuan Jin, “Aspherical Lens Design Using Genetic Algorithm for Reducing Aberrations in Multifocal Artificial Intraocular Lens,” *Materials*, vol. 8, no. 9, pp. 6309-6325, Sept. 2015.
  30. Ing-Jr Ding and \***Chih-Ta Yen**, “Enhancing GMM speaker identification by incorporating SVM speaker verification for intelligent web-based speech applications,” *Multimedia Tools and Applications*, vol. 74, no. 14, pp. 5131-5140, July 2015.
  31. \***Chih-Ta Yen**, and Chih-Ming Chen, “BER Analysis Using Beat Probability Method of 3-D Optical CDMA Networks with Double Balanced Detection,” *Mathematical Problems in Engineering*, vol. 2015, no. 2015, Article ID 456829, 6 pages, Jan. 2015.
  32. Yi-Chin Fang, \***Chih-Ta Yen**, and Jui-Hsin Hsu, “Study of Optical Design of Blu-Ray Pickup Head System with a Liquid Crystal Element,” *Applied Optics*, vol. 53, no. 29, pp. H153-H159, 10 Oct. 2014.
  33. **Chih-Ta Yen**, Hsu-Chih Cheng, and \*Ing-Jr Ding, “Hybrid Analog/Digital Wavelength-Time Optical CDMA Systems in Radio-over-Fiber Transmissions,” *The Journal of Supercomputing*, vol. 69, no. 3, pp. 1139-1153, Sept. 2014.
  34. Ing-Jr Ding, \***Chih-Ta Yen**, and Che-Wei Chang, “Optical music recognition of the singer using formant frequency estimation of vocal fold vibration and lip motion with interpolated GMM classifiers,” *Journal of Vibroengineering*, vol. 16, no. 5,

pp. 2572-2581, August, 2014.

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36. Hsu-Chih Cgeng, \***Chih-Ta Yen**, and Yong-Jing Xiao, "Measurement of Arbitrary Strain Profiles of Fiber Bragg Gratings in Fabry-Perot-like Transmission Spectra Using a Real-Coded Genetic Algorithm," *Sensors and Materials*, vol. 26, no. 5, pp. 299-306, June 2014.
37. **Chih-Ta Yen**, Jen-Fa Huang, Ming-Jia Wu, Yu-Fan Lee, Chia-Tsai Huang, Shu-Fan Huang, and \*Hsu-Chih Cheng, "Simultaneously measuring the refractive index and thickness of an optical sample by using improved fiber-based optical coherence tomography," *Optical Engineering*, vol. 53, no. 4, pp. 044108-1~044108-6, April 2014.
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40. **Chih-Ta Yen**, \*Ing-Jr Ding, Zong-Wei Lai, "A Study of Digital Watermarking Recognition using Orthogonal Code Sequences with a Back-propagation Neural Network," *Transactions of the Canadian Society for Mechanical Engineering*, vol. 37, no. 3, pp. 459-465, Nov. 2013.
41. **Chih-Ta Yen**, \*Ing-Jr Ding, Cheng-Mu Tsai, "Performance Analysis of Several Quasi-Orthogonal Codes Optical CDMA for Radio-over-Fiber System," *Transactions of the Canadian Society for Mechanical Engineering*, vol. 37, no. 3, pp. 415-426, Nov. 2013.
42. Ing-Jr Ding, and \***Chih-Ta Yen**, "Improving Eigenspace-Based Fuzzy Logic System Using a Linear Interpolation Scheme For Speech Pattern Recognition," *Transactions of the Canadian Society for Mechanical Engineering*, vol. 37, no. 3, pp. 611-620, Nov. 2013.
43. Ing-Jr Ding, \***Chih-Ta Yen** and Zih-Jheng Liu, "Fuzzy Logic-Based Intelligent Control For SVM Speaker Verification With The Support of GMM Prior Information," *Transactions of the Canadian Society for Mechanical Engineering*, vol. 37, no. 3, pp. 467-476, Nov. 2013.
44. Ing-Jr Ding, \***Chih-Ta Yen**, and Da-Cheng Ou, "A Method to Integrate GMM, SVM and DTW for Speaker Recognition," *International Journal of Engineering and Technology Innovation*, vol. 4, no.1, pp. 38-47, 2013.
45. Ing-Jr Ding, \***Chih-Ta Yen** & Yen-Ming Hsu, "Development of Machine Learning Schemes for Dynamic Time-wrapping-based Speech Recognition," *Mathematical*

*Problems in Engineering*, vol. 2013, no. 2013, pp. 1-10, 22 October 2013.

46. Hsu-Chih Cheng, \***Chih-Ta Yen** and Ing-Jr Ding, "Performance Enhancement of Optical CDMA by Differential-Phase Method for Radio-over-Fiber Transmissions," *Mathematical Problems in Engineering*, vol. 2013, no. 2013, pp.1-6, 7 October 2013.
47. **Chih-Ta Yen**, Chen-Mu Tsai, and \*Yi-Chin Fang, "A Study of Optical Design of Aspheric Optical Glasses Based on Kiou & Brennan Eyes Spherical Model," *Optik - International Journal for Light and Electron Optics*, vol. 124, no. 14, pp. 1726-1729, July 2013.
48. Yao-Tang Chang, **Chih-Ta Yen**, Yue-Shiun Wu and \*Hsu-Chih Cheng, "Using a Fiber Loop and Fiber Bragg Grating as a Fiber Optic Sensor to Simultaneously Measure Temperature and Displacement," *Sensors*, vol. 13, no. 5, pp. 6542-6551, 16 May 2013.
49. **C.T. Yen**, H.C. Cheng, \*Y.T. Chang, W.B. Chen, "Performance Analysis of Dual Unipolar/Bipolar Spectral Code in Optical CDMA Systems," *Journal of Applied Research and Technology*, vol. 11, no. 2, pp. 235-241, April 2013.
50. \***C.T. Yen** and W.B. Chen, "A Study of Bipolar Walsh-Hadamard Coding Method in Optical CDMA Networks," *Applied Mechanics and Materials*, vol. 284-287, pp. 2667-2671, 2013.
51. \***C.T. Yen** and W.B. Chen, "A Study of Modified Prime Codes Optical CDMA for Wired-Wireless System," *Applied Mechanics and Materials*, vol. 284-287, pp. 2672-2676, 2013.
52. **C.T. Yen**, \*I.J. Ding and Z.W. Lai, "A Coded Digital Watermarking Recognition Using Neural Network Method," *Applied Mechanics and Materials*, vol. 284-287, pp. 2961-2964 2013.
53. I.J. Ding and \***C.T. Yen**, "An EigenMLLR-Like Eigen-FLS Approach for Speech Pattern Recognition," *Applied Mechanics and Materials*, vol. 284-287, pp. 3030-3034, 2013.
54. \***Chih-Ta Yen**, "Phase Diversity Method Embedded with Optical CDMA on Radio-over-Fiber Transmissions," Accepted by *Information-An International Interdisciplinary Journal*, Feb., 2012.
55. \***Chih-Ta Yen**, "Optical CDMA Embedded with a Polarization Diversity Scheme for RoF Transmissions," *IET Optoelectronics*, vol. 6, no. 3, pp. 131-139, 2012.
56. **Chih-Ta Yen**, \*Hsu-Chih Cheng, Yao-Tang Chang, "Phase Noise Suppression of Wavelength-Time Optical CDMA for Radio-over-Fiber Transmissions," *Journal of Nanoelectronics and Optoelectronics*, vol. 7, no. 3, pp. 1-4, 2012.
57. **Chih-Ta Yen**, Yi-Chin Fang, and Chen-Mu Tsai, "A study of optical design for optics of high-contrast projector," *SPIE Optical Systems Design, Optical Design and Engineering IV*, vol. 8167, pp. 81670R-1 - 81670R-11, Oct. 13, 2011.
58. **Chih-Ta Yen**, Yi-Chin Fang, and Chen-Mu Tsai, "A study of blue-ray pickup head optical system with liquid-crystal optics module," *SPIE Optical Systems Design, Complex Systems: OCSIII*, vol. 8172, pp. 817211-1 – 817211-10, Sep. 21, 2011.
59. **Chih-Ta Yen**, Yi-Chin Fang, and Cheng-Hsien Huang, "A study of optical design of

- backlight module with external illuminance,” *SPIE Optical Systems Design, Illumination Optics II*, vol. 8167 pp. 8170K-1 – 8170K-17, Sep. 19, 2011.
60. **Chih-Ta Yen**, Yi-Chin Fang, Cheng-Hsien Huang, Bo-Ren Hsueh, and Chia-an Chen, “Optical Design of Light Guide Film with External Illuminance Backlight Module,” *SPIE Optical Engineering + Applications, Novel Optical Systems Design and Optimization XIV*, vol. 8172, pp. 817211-1 – 817211-10, Sep. 9, 2011.
  61. \*Yao-Tang Chang, Jen-Fa Huang, Chuen-Ching Wang, **Chih-Ta Yen**, Hsu-Chih Cheng, and Li-Wei Chou, “Adaptive modified time-spreading and wavelength-group-hopping embedded M-sequence code for improved confidentiality over synchronous networks,” *Optical Engineering*, vol. 50, no. 5, pp. 055001(1)-055001(15), May, 2011.
  62. \***Chih-Ta Yen**, Jen-Fa Huang, Yao-Tang Chang and Bo-Hau Chen, “Polarization diversity scheme on spectral polarization coding optical code-division multiple-access network,” *Optical Engineering*, vol. 49, no. 12, pp. 125005(1)-125005(9), Dec., 2010.
  63. Jen-Fa Huang, \***Chih-Ta Yen**, and Ying-Wei Tu, “Reduction of Linear Crosstalk over Waveguide-Grating-Based Optical CDMA Coder/Decoders,” *J. OPT. COMMUN. NETW. IEEE/OSA*, vol. 2, no. 11, pp. 975-983, Nov., 2010.
  64. \***Chih-Ta Yen**, Chih-Wei Tsai, “Compensating unflattened WDM chips spectra using dynamic backward-pumped fiber Raman amplifiers technology,” *Photonic Network Communications*, vol. 21, no. 2, pp. 192-200, Sept., 2010.
  65. \*Yao-Tang Chang, Jen-Fa Huang, **Chih-Ta Yen**, Chuen-Ching Wang, Hsu-Chih Cheng, and Kai-chun Hsu, “A new shared AWG-based OCDMA scheme implemented with time-spreading and wavelength-group-hopping embedded M-sequence code,” *Optical Fiber Technology*, vol. 16, issue 2, pp. 114-123, March, 2010.
  66. \***Chih-Ta Yen**, “Integrated dispersion slope equalizer of AWG-based optical CDMA for radio-over-fiber transmissions,” *Photonic Network Communications*, vol. 19, issue 3, pp. 311-319, January, 2010.
  67. \*Jen-Fa Huang, **Chih-Ta Yen**, and Bo-Hau Chen, “Optical CDMA with Embedded Spectral Polarization Coding over Double Balanced Differential-Detector,” a book chapter in Chong-Gang Wang (ed.): Access Nets, LNICST 6, pp. 441-456, August 2009
  68. \***Chih-Ta Yen**, and Jen-Fa Huang, “Realization of OSW/AWG-based Bipolar Wavelength-Time Optical CDMA for Wired-Wireless Transmissions,” *Optical Fiber Technology*, vol. 15, issue 1, pp. 74-82, Jan., 2009.
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  70. \*Jen-Fa Huang, **Chih-Ta Yen**, and Tzung-Yen Li, “Nonlinearity Effect of Electro-Optical Modulator Response in Double Spread CDMA Radio-over-Fiber Transmissions,” *Optical Fiber Technology*, vol. 14, issue 3, pp. 247-258, July, 2008.
  71. Jen-Fa Huang, \***Chih-Ta Yen**, and Chih-Wei Tsai, “Compensation scheme for flattening

coded wavelength-division multiplexing chip spectra with backward-pumped fiber Raman amplifiers,” *Optical Engineering*, vol. 46(10), pp. 105005(8), October 2007. (SCI, IF:0.757, Rank: 35/64, Q3, 2007)

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## B. 會議論文(Conference Paper)

1. \***Chih-Ta Yen**, Yi-Kai Huang , Jia-Xian Liao, Sheng-Nan Chang, “Development of a Continuous Blood Pressure Measurement by Using a Deep Learning Algorithm and Dual Photoplethysmography Sensor Signals Acquisition Technology,” International Multi-Conference on Engineering and Technology Innovation 2021 (IMETI 2021), Taoyuan, Taiwan, October 29-November 2, 2021.
2. \***Chih-Ta Yen**, Sheng-Nan Chang, Cheng-Hong Liao, “A Compositied Deep Learning Framework for PPG-Based Blood Pressure and Heart Rate Estimation,” IEEE 2021 Join International Conference on Applied System Innovation & Innovation, Communication and Engineering (IEEE-ICASI), Alishan, Chiayi, Taiwan, July 18-19, 2021.
3. \***Chih-Ta Yen** and Hsin-Han Tsai, “Applying Neural Network Algorithm of MIMO Log-normal Channel for OFDM/OCDMA System,” IEEE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS - TAIWAN (IEEE 2021 ICCE-TW), National Penghu University of Science and Technology in Penghu City June 16-18, 2021.
4. 呂昊穎、陳昱龍、丁英智、顏志達、張守進、楊勝州, “金奈米粒子修飾氧化鋅奈米柱與酸鹼感測器之應用研究,” 2021 Conference on Information Technology and Applications in Outlying Islands, 金門大學, 金門, May 28-29, 2021.
5. \***Chih-Ta Yen**, Guan-Yu Chen, “The Deep Learning-Based Person Search System in Real Camera Image Scenario,” IEEE 2020 Join International Conference on Applied System Innovation & Innovation, Communication and Engineering (IEEE-ICASI & ICICE 2020), Taitung Taiwan, November 5-8, 2020.
6. \***Chih-Ta Yen**, Sheng-Nan Chang and Cheng-Hong Liao, “Hypertension Classification with Deep Learning Technologies Using Photoplethysmography Signals,” International Multi-Conference on Engineering and Technology Innovation 2020 (IMETI 2020), Taichung, Taiwan, October 23-27, 2020.
7. \***Chih-Ta Yen** and Jia-De Lin, “The Classification Algorithm Evaluation for Human Body Activity Recognition by Machine Learning-Based Method,” International Multi-Conference on Engineering and Technology Innovation 2019 (IMETI 2019), Kaohsiung, Taiwan, November 15-19, 2019.
8. \***Chih-Ta Yen** and Chuan-Yuan Hong, “Integrating Optimal Algorithm with Optical Design for Wireless Light Charging System,” IEEE International Conference on



- Innovation, Communication and Engineering 2019(IEEE ICICE 2019), Zhengzhou, Henan Province, China, October 25-30, 2019.
9. \***Chih-Ta Yen**, “Using MIMO Technology to Improve the System Performance of Wireless Orthogonal Frequency and Optical Code Division Multiplexing Systems under the Free Space Optical Setting in a Log-normal Distribution Channel,” International Conference on Advanced Technology Innovation 2019 (ICATI 2019), Sapporo, Hokkaido, Japan, July 15-18, 2019.
  10. \***Chih-Ta Yen**, “Integrating an Artificial Intelligence Neural Network with Sensing Technology for 3D Printer Fault Diagnosis,” 2018 International Conference on Innovation, Communication and Engineering, Hangzhou (ICICE 2018), Zhejiang Province, P. R. China, November 9–14, 2018.
  11. \***Chih-Ta Yen**, “Improving Tracking Error by Dead Reckoning and RSSI Technologies with a Fuzzy Fusion Scheme in Indoor Location,” International Conference on Innovation, Communication and Engineering (ICICE 2017), Kunming, Yunnan Province, P.R. China, November 05-11, 2017.
  12. Jia-Ming Zhang, **Chih-Ta Yen**, Chen-Gang Wu and \*Cheng-Mu Tsai, “The optical design of a zoom ultra wide angle lens with liquid lens,” 2017 International Symposium on Optomechatronic Technology, Tainan, Taiwan, November 05-09 2017.
  13. Wen-Zong Zhang, \***Chih-Ta Yen**, Jen-Fa Huang, “Hiding Stealth CDMA Signals in Public BPSK Channel for Communications Secrecy,” International Multi-Conference on Engineering and Technology Innovation 2017 (IMETI 2017), Hualien, Taiwan, October 27-31, 2017.
  14. \***Chih-Ta Yen**, Jen-Fa Huang and Wen-Zong Zhang, “Optical Steganography on Stealth CDMA Signals Transmitted over Public BPSK Channel,” International Conference on Advanced Technology Innovation 2017 (ICATI 2017), Samui, Thailand, June 25-28, 2017.
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  16. W.Z. Zhang, J.F. Huang\* and C.T. Yen, “Optical Steganography to a Public BPSK by Stealth Spectral-Polarization OCDMA Signals,” Optics & Photonics Taiwan , the International Conference (OPTIC 2016), Taipei, Taiwan, December 3 - 5, 2016
  17. G.-L. Chen, \***C.-T. Yen** and C.-Y. Liu, “OCDMA-Based Hybrid OFDM/OOK Modulation Scheme for Free Space Optics,” Optics & Photonics Taiwan , the International Conference (OPTIC 2016), Taipei, Taiwan, December 3 - 5, 2016
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19. \***Chih-Ta Yen** and Yu-Ting Lin, “A Study of Optical Design with Narrow Band Imaging for Capsule Endoscope,” International Multi – Conference on Engineering and Technology Innovation 2016 (IMETI 2016), Taichung, Taiwan, October 28-November 01, 2016.
20. \***Chih-Ta Yen**, Chia-Yu Liu, “Hybrid OFDM/OOK Modulations in OCDMA Scheme for Free Space Optics,” International Conference on Advanced Technology Innovation (ICATI 2016), Bali, Indonesia, June 30-July 3, 2016.
21. \***Chih-Ta Yen** and Wen-Bin Chen, “Dispersion Suppression of Polarization Multiplexing-Based OCDMA Wireless-Wired Transmissions,” International Conference on Applied System Innovation (ICASI 2016), Okinawa, Japan, May 28-June 1, 2016.
22. **Chih-Ta Yen**, Shih-Cyuan Jin, and Yu-Ting Lin, “A Study of Optical Design with Genetic Algorithm for Free-form Surfaces in Multifocal Artificial Intraocular Lens,” 2015 Optics & Photonics Taiwan, International Conference (OPTIC 2015), Hsinchu, Taiwan, Dec. 4-6, 2015.
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25. **Chih-Ta Yen**, Guan-Jie Huang, A.T. Balkema and G. Westers, “Optical Steganography Transmission of Optical CDMA Signals Over a Public BPSK Channel,” 2015 The fourth International Conference on Innovation, Communication and Engineering (ICICE 2015), Xiangtan, Hunan, P.R. China, Oct. 23-28, 2015.
26. **Chih-Ta Yen**, Cheng-Mu Tsai, and Jyun-Min Shih, “Aberration improvement with liquid field lens scheme in multiple-zooms lens intermediate optics” Optics & Photonics Taiwan, the International Conference (OPTIC) 2014, Taichung, Taiwan, 4-5 December 2014.
27. **Chih-Ta Yen**, Chia-Yu Liu and Cheng-Hao Ke, “A Study of Channel Effects of Free Space Optics in Using Polarization Multiplexing OCDMA Scheme,” 2014 National Symposium on Telecommunication (NST), Taichung, Taiwan, Nov. 27-28, 2014.
28. **Chih-Ta Yen**, Ing-Jr Ding and Jyun-Min Shih, “Image Quality Improvement with Liquid Field Lens Scheme in 9x Zoom Lens Intermediate Optics,” The 3rd International Conference on Engineering and Technology Innovation 2014, Kenting, Taiwan, Oct. 31-Nov. 04, 2014.
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### C. 專利(patent)

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