

Yi-Pai Huang

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Personal Information:

Sex: Male.

Birthday: 1977 Nov. 2nd

Citizenship: Taiwan, R.O.C.

Education:

09/1999 - 09/2004 Ph.D., Electro-Optical Engineering, National Chiao Tung University.

09/1995 - 06/1999 Bachelor of Physics, National Cheng Kung University.

Academic Experience:

08/2010 – Present Visiting Scientist, Cornell University

08/2009 – Present Associate Professor, National Chiao Tung University

08/2009 – Present Vice Director, EECS Undergraduate Honors Program, NCTU

04/2006 – Present Secretary General, Society of information display(SID) Taipei Chapter

09/2006 – 08/2009 Assistant Professor, National Chiao Tung University

09/2004 – 09/2006 Project Leader/Deputy Manager, AU-Optronics(AUO) Tech. Center

11/2001 – 06/2002 Visit Scholar, CREOL, University of Central Florida(UCF).

Research Topics:

3D Display and Interactive Technologies, Display Optics and Color science, Micro-optics.

International Society Committees:

2006-Present: Secretary General, Society of information display(SID) - Taipei Chapter

2006-Present: Asia Committee, Society of information display(SID)

2009-Present: Editorial Board Committee, Journal of 3D Research

2009-Present: Chair of Applied Vision(APV) Sub-committee, Society of information display(SID)

2009-Present: Guest Editor of Journal of SID

Awards and Honors :

- 2011 Excellent Academic-Industrial Collaboration Award, National Chiao-Tung University
- 2011 Silver Medal of Acer Dragon Award
- 2010 Senior Member of Society of Information Display (SID)
- 2010 Advantech Young Professor Award
- 2009 Journal of SID, Outstanding Student Paper of Year Award. (Advisor of 1st author)
- 2009 SID'09 Distinguished Paper Award, International Society of Information Display Symposium 2009, San-Antonio, TX, U.S.A.
- 2009 Invited paper for Special Section of Journal SID - Best of the SID'09 Symposium
- 2009 Excellent Project Award, ChungHwa Picture Tube (CPT) Ltd.
- 2009 Outstanding Research Paper Award on Image Display Technology, Ministry of Education, Taiwan.
- 2009 Best Poster Award, International Display Manufacturing Conference 2009.
- 2009 Outstanding Teaching Award, National Chiao-Tung University.
- 2009 Tin Ka Ping Distinguished Teaching Award, Department of Photonics, NCTU.
- 2008 Invited Article for SPIE News Room
- 2008 Silver Award of National Project Contest on Image Display Technology, Ministry of Education
- 2008 Excellent Project Award, ChungHwa Picture Tube (CPT) Ltd.
- 2008 Invited paper for Special Section of Journal SID - Best of the SID'08 Symposium
- 2008 Outstanding Teaching Award, National Chiao-Tung University.
- 2008 Tin Ka Ping Distinguished Teaching Award, Department of Photonics, NCTU.
- 2005 AUO Bravo Award-Team of the year, AU-Optronics Corp.
- 2005 Golden Dissertation Award of Acer Foundation
- 2004 SID'04 Distinguished Student Paper Award, International Society of Information Display Symposium 2004, Seattle, WA, U.S.A. (2004)
- 2003 Best Student Paper Award, Opto-Photonics Taiwan 2003
- 2002 Silver Award of National Project Contest on MEMs Design and Integration, Ministry of Education
- 2002 Best Student Paper Award, Opto-Photonics Taiwan 2002
- 2001 SID'01 Best Student Paper Award, International Society of Information Display Symposium 2001, Boston, MA, U.S.A.

Invited Talks for International Conference:

[2011]

Keynote Speaker of 3DSA2011, Seoul, Korea.

Workshop Speaker of Asia Display, KunShan, China.

Invited Speaker of IMID 2011, Seoul, Korea

Invited Speaker of SPIE Photonic West 2011, San Francisco, USA.

Invited Speaker of SPIE Defense, Security, and Sensing 2011, Orlando, USA.

Invited Speaker of International Display Manufacturing Conference 2011, Taipei, Taiwan.

[2010]

Invited Speaker of Society of International Display Symposium, SID'10, Seattle, USA.

[2009]

Invited Speaker of Society of International Display Symposium, SID'09, San Antonio, USA.

Invited Speaker of International Display Research Conference, IDRC'09, Rome, Italy.

Invited Speaker of International Display Workshop, IDW'09, Miyazaki, Japan.

[2008]

Workshop Speaker and Invited Speaker of International Display Research Conference, IDRC'08, Orlando, USA.

Workshop Speaker of Opto-Photonics Taiwan Conference, OPT'08, Taipei, Taiwan.

[2007]

Invited Speaker of Asia SID, ASID'07, Singapore.

Invited Speaker of International Meeting on Information Display, IMID'07, Daegu, Korea.

Invited Speaker of Asia Optical Fiber Communication & Optoelectronic Exposition & Conference, AOE'07 Shanghai, China.

International Conference Activities:

[2011]

Chair of Program Sub-committee(APV), SID'11, Los Angeles, USA

Program Co-chair, IDMC'11, Taipei, Taiwan

[2010]

Program Committee and Session Chair, SID'10, Seattle, USA.

Program Committee, 3DSA'10, Tokyo, Japan

Program Committee, ISFED'08, HsinChu, Taiwan

[2009]

Program Committee and Session Chair, SID'09, San Antonio, USA.

Program Committee, IMID'09, Seoul, Korea

Program Sub-committee Co-Chair, ACP'09, Shanghai, China

Secretary General/Program Committee/Session Chair, IDMC'09, Taipei, Taiwan

[2008]

Asia Committee, SID'08, Los Angeles, USA

Technical Program Co-chair, ISFED'08, HsinChu, Taiwan
Program Committee, IMID'08, Ilsan, Korea
Program Committee and Session Chair, TDC'08, Taipei, Taiwan

[2007]

Asia Committee, SID'07, San Jose, USA
Secretary General/Program Committee/Session Chair, IDMC'07, Taipei, Taiwan
Session Chair, IMID'07, Daegu, Korea
Program Committee and Session Chair, OPT'07, Taichung, Taiwan.

[2006]

Asia Committee, SID'06, San Francisco, USA
Program Committee, Asia Display 2006, Shanghai, China

Reviewer for Journal

IEEE/OSA Jol. Of Display Tech. : 3 papers
Jol. of SID : 4 papers
Optical Engineering : 1 paper
Optics Letter of China : 2 papers
Jol. of Sensors and Actuators A: Physical : 1 paper

Full Publication List:

[Journal]

(Total 29 papers, including 28 Published, 1 Accepted)

1. **Yi-Pai Huang**, Fang-Cheng Lin, Han-Ping Shieh, "Eco-Displays: The Color LCD's without Color Filters and Polarizers", accepted by IEEE/OSA Jol. of Display Tech., (2011/07). (SCI, IF=1.928)
2. Jianke Yao, Ningsheng Xu, Shaozhi Deng, Jun Chen, Juncong She, Han-Ping Shieh, Po-Tsun Liu, **Yi-Pai Huang**, "Electrical and Photosensitive Characteristics of a-IGZO TFTs Related to Oxygen Vacancy", IEEE Transactions on Electron Devices, Volume.58, Issue:4, pp. 1121 – 1126, (2011/04).
3. Hsin-Tao Huang, **Yi-Pai Huang**, and Chuang-Chuang Tsai, "Planar Lighting System Using Array of Blue LEDs to Excite Yellow Remote Phosphor Film", IEEE/OSA Jol. of Display Tech., vol. 7, Issue 1, pp.44-51. (2011/01). (SCI, IF=1.928)

4. Hsin-Tao Huang, Chuang-Chuang Tsai, and **Yi-Pai Huang**, ” *Ultraviolet excitation of remote phosphor lighting in dual-sided liquid-crystal display*” Opt. Lett., Vol. 35, No. 15, pp. 2547-2549, (2010/08), (SCI, IF=3.299).
5. Hsin-Tao Huang, Chuang-Chuang Tsai, and **Yi-Pai Huang**, ” *Conformal phosphor coating using pulsed spray(PS) technology to reduce color deviation of white LEDs*” Opt. Express, Vol. 18, No. 102, pp. A201-A206, 21 (2010/06), (SCI, IF=3.477)
6. **(Invited) Yi-Pai Huang**, Lin-Yao Liao, Chi-Wei Chen, “2D/3D Switchable Autostereoscopic Display with Multi-electrically Driven Liquid Crystal (MeD-LC) Lenses”, J. Soc. Inf. Display , Vol. 18, Issue9, pp.642-646 (2010), (SCI, IF=1.033)
7. **(Invited) Yi-Pai Huang**, Chih-Wei Chen, To-Chiang Shen , Jian-Fung Huang, “*Autostereoscopic 3D Display with Scanning Multi-electrode Driven Liquid Crystal(MeD-LC) Lens*”, invited by Journal of 3D Research(2010), Vol.1 Issue 1, pp. 39-42(2010)
8. Lin-Yao Liao, Chih-Wei Chen, and **Yi-Pai Huang**,” *Local Blinking HDR LCD Systems for Fast MPRT with High Brightness LCDs*” IEEE/OSA Jol. of Display Technology, vol. 6, Issue 5, pp.178-183.(2010). (SCI, IF=1.928)
9. Hsin-Tao Huang, Chuang-Chuang Tsai, and **Yi-Pai Huang** ” *A Direct-view Backlight with UV Excited Trichromatic Phosphor Conversion Film*” IEEE/OSA Jol. of Display Technology, vol. 6, Issue 4, pp. 128-132.(2010/04), (SCI, IF=1.928)
10. Wallen Mphöpö, **Yi-Pai Huang**, Per Rudquist, Han-Ping D. Shieh ” *Digital Micro Hinge (DMH) Based Display Pixels*” IEEE/OSA Jol. of Display Technology, vol. 6, Issue 4, pp.1424-149.(2010), (SCI, IF=1.928)
11. Wallen Mphöpö, **Yi-Pai Huang**, Per Rudquist, Han-Ping D. Shieh ” *An Autosteresoscopic 3D Display System Based on Prism Patterned Projection Screen*” IEEE/OSA Jol. of Display Technology, vol. 4, Issue 3, pp. 94-97.(2010), (SCI, IF=1.928)
12. Lin-Yao Liao, and **Yi-Pai Huang**, ” *Blur-Mask Approach for Real-Time Calculation of Light Spreading Function (LSF) on Spatial Modulated High Dynamic Range LCDs,*” IEEE/OSA Jol. of Display Technology, vol. 6, Issue 4, pp. 121-127.(2010), (SCI, IF=1.928)
13. Guo-Zhen Wang, Fang-Cheng Lin, and **Yi-Pai Huang**, “*Delta-Color Adjustment (DCA) for Spatial Modulated Color Backlight Algorithm on High Dynamic Range LCD TVs,*” IEEE/OSA Jol. of Display Technology, vol. 6, Issue 6, pp. 215-220.(2010), (SCI, IF=1.928)

14. Wallen Mphöpö , **Yi-Pai Huang**, and Han-Ping D. Shieh, “Enhancing The Brightness Of Parallax Barrier Based 3D Flat Panel Mobile Displays Without Compromising Power Consumption”, IEEE/OSA Jol. of Display Technology, vol. 6, Issue 2, pp. 60-64.(2010), (SCI, IF=1.928)
15. Fang-Cheng Lin, **Yi-Pai Huang**, Han-Ping D. Shieh, “Color Breakup Reduction by 180Hz Stencil-FSC Method in Large-Sized Color Filter-Less LCD-TVs”, IEEE/OSA Jol. of Display Technology, vol. 6, Issue 3, pp. 107-112.(2010), (SCI, IF=1.928)
16. (教育部顯示影像優良論文獎) 魏景明, 林芳正, 黃乙白, 謝漢萍, “利用 Stencil-FSC 法抑制色分離並達低功率之色序型液晶顯示器”, Journal of Technology(技術學刊), Vol.24 No.4, pp. 241-249 (2009)
17. Yu-Kuo Cheng, **Yi-Pai Huang**, Yi-Ru Cheng, and Han-Ping D. Shieh, “Two-Color Field-Sequential Method with Spatial and Temporal Mixing Method” IEEE/OSA Jol. of Display Technology, vol. 5, Issue 10, pp. 385-390.(2009), (SCI, IF=1.928)
18. Fang-Cheng Lin, **Yi-Pai Huang**, Ching-Ming Wei, and Han-Ping D. Shieh, “Color Filter-Less LCDs in Achieving High Contrast and Low Power Consumption by Stencil Field Sequential-Color Method”, IEEE/OSA Jol. of Display Technology, vol. 6, Issue 3, pp. 98-106.(2009)., (SCI, IF=1.928)
19. Cheng-Huan Chen, **Yi-Pai Huang**, Shang-Chih Chuang, Chi-Lin Wu, Han-Ping D. Shieh, Wallen Mphöpö, Chiu-Ting Hsieh, “*Liquid crystal panel for high efficiency barrier type autostereoscopic displays*”. Appl. Opt., Vol. 48, No. 18, pp. 3446-3454.(2009). (SCI, IF=1.410)
20. (2009 J-SID Best Student Paper of the Year Award) Fang-Cheng Lin, **Yi-Pai Huang**, Ching-Ming Wei, and Han-Ping D. Shieh, “Color Break-Up Suppression and Low Power Consumption by Stencil-FSC Method in Field-Sequential LCDs”, Journal of SID , Special Section – Best of SID’08 Symp., vol. 17(3), pp. 221-228, (2009)., (SCI, IF=1.033)
21. Chun-Ho Chen, Fang-Cheng Lin, **Yi-Pai Huang**, Ya-Ting Hsu and Han-Ping D. Shieh “A Field Sequential Color LCD Based on Color Fields Arrangement for Color Breakup and Flicker Reduction”, IEEE/OSA Jol. of Display Technology, vol. 5, Issue. 1, pp. 34-39.(2009), (SCI, IF=1.928)
22. **Yi-Pai Huang**, Ke-Horng Chen, Chun-Ho Chen, Fang-Cheng Lin, and Han-Ping D. Shieh, “Adaptive LC/BL Feedback Control in Field Sequential Color LCD Technique for Color Breakup Minimization”, IEEE/OSA Jol. of Display Technology, Vol. 4, Issue 3, pp. 290-295.(2008), (SCI, IF=1.928)

23. Fang-Cheng Lin, **Yi-Pai Huang**, Lin-Yao Liao, Cheng-Yumr Liao and Han-Ping D. Shieh, "Dynamic Backlight Gamma on High Dynamic Range LCD TVs", IEEE/OSA Jol. of Display Technology, Vol. 4, Issue 2, pp.139 - 146.(2008), (SCI, IF=1.928)
24. Han-Ping Shieh, **Yi-Pai Huang** , and Ko-Wei Chien, "Micro-Optics for Liquid Crystal Applications", IEEE/OSA Jol. of Display Technology, Vol. 1, Issue. 1. pp. 62-76. (2005), (SCI, IF=1.928)
25. Yung-Shun Yang, **Yi-Pai Huang** , Han-Ping D. Shieh, Meng-Chang Tsai, and Ching-Yu Tsai, "A plications of Micro-tube Array on Transflective Liquid Crystal Displays for Backlight Efficiency Enhancement", Jpn. J. Appl. Phys, Vol. 43, No. 12. pp. 8075-8079.(2004). (SCI, IF=1.138)
26. **(Invited) Yi-Pai Huang** , Xinyu Zhu, Hongwen Ren, Qi Hong, Thomas X. Wu, Shin-Tson Wu, Mu-Zen Su, Meng-Xi Chan, She-Hong Lin, and Han-Ping D. Shieh, "Full-Color Transflective Cholesteric LCD with Image-Enhanced Reflector", J. Soc. Inf. Display 12 , pp. 417. (2004), (SCI, IF=1.033)
27. **Yi-Pai Huang** , Liang-San Chu , and Han-Ping D. Shieh, "Analyses and Improvements of Whiteness of Reflective Liquid", Jpn. J. Appl. Phys, Vol. 43, No. 9A. pp. 6162-6165.(2004). (SCI, IF=1.138)
28. **Yi-Pai Huang** , Shin-Tson Wu and Han-Ping D. Shieh, "Application of Multidirectional Asymmetrical Microlens-Array Light Control Films on Various Reflective Liquid Crystal Displays for image quality improving". Appl. Opt., Vol. 43 , pp. 3656-3663. (2004). (SCI, IF=1.410)
29. **Yi-Pai Huang** , Fu-Jen Ko, Juie-Jun Chen and Han-Ping D. Shieh, "Multi-directional Asymmetrical Microlens Array Light Control Film for Improve I mage in Reflective Color Liquid Crystal Displays". Jpn. J. Appl. Phys. Vol. 41, pp. 646-651. (2002). (SCI, IF=1.138)

[International Conference]

(Total 77 Papers, including 50 SID Symp.(with one 1st author Invited Talk), Eleven 1st Author Invited Talk, and 5 Paper Awards)

1. **(Invited paper) Yi-Pai Huang**, Guo-Zen Wang, Ming-Ching Ma, Hsuan-Yu Tung, Shu-Yi Huang, "Virtual Touched 3D Optical Touch System", International Meeting of Information Display 2011.
2. **(Invited paper) Yi-Pai Huang**, Guo-Zhen Wang, Shang-Yu Tung, Ming-Ching Ma ,

- “Virtual Touch on 3D-images Based on Embedded Optical Sensor Array System”, SPIE Defense, Security, and Sensing 2011
3. **(Invited paper) Yi-Pai Huang**, Chih-Wei Chen, Yi-Ching Huang, “Fast Response Fresnel Liquid Crystal lens for 2D/3D Autostereoscopic Display”, SPIE Photonic West 2011.
 4. Guo-Zhen Wang, Ming-Ching Ma, Shang-Yu Tung, **Yi-Pai Huang**, “A Virtual Touch 3D Interactive Display with Embedded Optical Sensor Array for Five-Axis (x, y, z, θ , Φ) Detection”, Society for Information Display 2011 (SID’11), pp.737-740. (Page 737)
 5. Chih-Yao Ma, Yu-Cheng Chang, **Yi-Pai Huang**, “A Simulation Platform and Crosstalk Analysis for Patterned Retarder 3D Display”, Society for Information Display 2011 (SID’11), pp.808-811
 6. Yu-Yi Chien, Yu-Cheng Chang, **Yi-Pai Huang**, , “The 3D Image Quality Index ($\Delta X3D$) Including Crosstalk, Motion Blur, and Disparity for Two-View Stereoscopic Images” Society for Information Display 2011 (SID’11), pp.912-915
 7. Chang-I Teng, Fang-Cheng Lin, **Yi-Pai Huang**, Han-Ping David Shieh, “Stencil Field-Sequential-Color Method on Locally Controlled Side-Lit Eco-LCDs”, Society for Information Display 2011 (SID’11), pp.968-971
 8. Szu-I Wu, Fang-Cheng Lin, **Yi-Pai Huang**, Han-Ping D. Shieh, “Electrokinetics of Charged Particles in Microcup Electrophoretic Displays”, Society for Information Display 2011 (SID’11), pp.1595-1598
 9. Hsuan-Yu Tung, Gao-Zhen Wang, **Yi-Pai Huang**, “Multi-User and Multi-Touch System for 3D-Interactive Display”, Society for Information Display 2011 (SID’11), pp.1834-1837.
 10. Ming-Ching Ma, Guo-Zhen Wang, **Yi-Pai Huang**, “3D Finger Touch with Sequential Illuminator”, Society for Information Display 2011 (SID’11), pp.1848-1851.
 11. Po-Chuan Chen, Chih-Wei Chen, **Yi-Pai Huang**, “Dual Directional Overdriving Method for Fast Response LC-lenses on Autostereoscopic 3D Display”, Society for Information Display 2011 (SID’11), pp.17-20.
 12. Chih-Hung Ting, Ching-Yi Hsu, Che-Hsuan Yang, **Yi-Pai Huang**, “Multi-User 3D Film on Directional Sequential Backlight System”, Society for Information Display 2011 (SID’11), pp.460-463.
 13. **(Invited paper) Yi-Pai Huang**, Guo-Zen Wang, Ming-Ching Ma, Hsuan-Yu Tung, Shu-Yi Huang, “Virtual Multi-Touched 3D Interactive Display System with Sequential

T Mark”, Intl. Display Manufacturing Conference 2011 (IDMC’11)

14. **(Best Poster Award)** Guo-Zen Wang, Yi-Pai Huang, “Virtual Touched 3D Interactive Display with Embedded Optical Sensor”, Intl. Display Manufacturing Conference 2011 (IDMC’11)
15. **(Invited paper)** Wen-Chi Chang, Hsin-Tao Huang, Chuang-Chuang Tsai, **Yi-Pai Huang**, Han-Ping D. Shieh, “Remote Phosphor for Future LED Backlight Applications”, Society for Information Display 2010 (SID’10), pp. 985-988.
16. Pi-Cheng Wu, Guo-Zhen Wang, Yi-Pai Huang, “3D Interactive (3D Touch) Display with Embedded Optical Sensor”, Society for Information Display 2010 (SID’10), pp. 859-862.
17. Yu-Cheng Chang, Chih-Yao Ma, Yi-Pai Huang, “Crosstalk Suppression by Image Processing in 3D Display”, Society for Information Display 2010 (SID’10), pp. 124-127.
18. Ching-Wen Wei, Ching-Yi Hsu, Yi-Pai Huang, “Spatial-Temporal Hybrid Multi-View 3D Display”, Society for Information Display 2010 (SID’10), pp. 863-866.
19. Chih-Hong Ding, Ching-Yi Hsu, Hung-En Lin, and Yi-Pai Huang, “2D/3D Hybrid System for Digital Signage Application”, Society for Information Display 2010 (SID’10), pp. 440-443.
20. Chih-Wei Chen, Yi-Ching Huang, Yi-Pai Huang, “Fast Switching Fresnel Liquid Crystal Lens for Autostereoscopic 2D/3D Display”, Society for Information Display 2010 (SID’10), pp. 425-428.
21. Chi-Chu Tsai, Fang-Cheng Lin, Yi-Pai Huang, and Han-Ping D. Shieh, “RGBW 4-in-1 LEDs for Backlight System for Ultra-Low Power Consumption Field-Sequential-Color LCDs”, Society for Information Display 2010 (SID’10), pp. 420-423.
22. Shih-Hsun Chien, Chun-Ho Chen, Fang-Cheng Lin, Yi-Pai Huang, and Han-Ping David Shieh, “Real-Time Adaptive Backlight Algorithm for Field-Sequential-Color Displays”, Society for Information Display 2010 (SID’10), pp. 163-165.
23. Yi-Han Hsieh, Fang-Cheng Lin, Yi-Pai Huang, and Han-Ping D. Shieh, “Novel Addressing Method for Color Filter-Less Liquid Crystal Displays”, Society for Information Display 2010 (SID’10), pp. 166-169
24. Lin-Yao Liao, Po-Yuan, Shieh, and Yi-Pai Huang, “Marginal Electrodes with Over-drive Method for Fast Response Liquid Crystal Lens Applications”, Society for Information Display 2010 (SID’10), pp. 1755-1758.

25. **(Invited paper)** **Yi-Pai Huang**, Han-Ping D. Shieh, Kuo-Gzen Wang, Lin-Yao Liao, Fang-Cheng Lin, Yu-Kuo Cheng, “Backlight Adjustment, Image Compensation, and Color Model Mapping for High Dynamic Range(HDR) Spatial Modulated Display System”, International Display Workshop. (IDW’09)
26. **(Invited paper)** **Yi-Pai Huang**, Fang-Cheng Lin, Chi-Chu Tsai, and Han-Ping D. Shieh, “Stencil Field-Sequential Color Method for Color Breakup Suppression on 180Hz LCD-TV”, International Display Research Conference 2009. (IDRC’09/Eurodisplay2009)
27. **(Invited paper)** **Yi-Pai Huang**, Chih-Wei Chen, To-Chiang Shen , “Invited Paper: High-Resolution Autostereoscopic 3-D Display with Scanning Multi-Electrode Driving Liquid-Crystal (MeD-LC) Lens ” Society for Information Display 2009 (SID’09)
28. **(Invited paper)** Han-Ping David Shieh, **Yi-Pai Huang**, Fang-Cheng Lin, Yu-Kuo Cheng , “Invited Paper: Eco-Display High-Optical-Throughput Color-Filterless Field-Sequential LCDs ”Society for Information Display 2009 (SID’09)
29. **(Distinguished Paper Award)** Yu-Kuo Cheng, Yi-Ru Cheng, **Yi-Pai Huang**, Han-Ping D. Shieh, “Two-Color Field-Sequential Method for Color-Filter-Free MVA-LCDs”, Society for Information Display 2009 (SID’09)
30. Guo-Zhen Wang, **Yi-Pai Huang**, Szu-Che Yeh, and Han-Ping D. Shieh, “Segment Color Control (SCC) Method for Color Controlled Backlight of High Dynamic Range LCD- TVs” Society for Information Display 2009 (SID’09)
31. Bo-Wen Xiao, Chien-Hsiang Hung, Hsin-Tao **Yi-Pai Huang** Huang, Chung-Hao Tien, Chuang-Chuang Tsai, Han-Ping David Shieh , “Optical Properties of Visible-Light Excited Phosphor Sheet (VEPS) System ” Society for Information Display 2009 (SID’09)
32. Hsin-Tao Huang, Chuang-Chuang Tsai, **Yi-Pai Huang**, Chun-Chung Hsiao, Sung-Po Chen, Yi-Hsing Peng, Win-Chi Chang , “Dual-Side Slim LCD System with UV-Excited Flat Backlight ”Society for Information Display 2009 (SID’09)
33. Fang-Cheng Lin, **Yi-Pai Huang**, Chi-Chu Tsai, Han-Ping David Shieh , “Color-Break-Up Reduction by 180-Hz Stencil-FSC Method in Large-Sized Color Filter-Less LCDs ”Society for Information Display 2009 (SID’09)
34. Lin-Yao Liao, Chih-Wei Chen, **Yi-Pai Huang**, Szu-Che Yeh , “Fast MPRT with High Brightness LCD by 120-Hz Local Blinking HDR Systems ”Society for Information Display 2009 (SID’09)

35. Chieh-Yao Chiang, Kuo-Tsung Chen, Yu-Cheng Chang, **Yi-Pai Huang**, “The Effect of Dynamic Crosstalk for Sterioscopic 3-D Moving Images ”Society for Information Display 2009 (SID’09)
36. Yi-Ling Chen, Yu-Kuo Cheng, **Yi-Pai Huang**, Han-Ping David Shieh, Szu-Che Yeh, “Color Optimization Model for High Dynamic Range LCDs with RGB Color Backlights ”Society for Information Display 2009 (SID’09)
37. Wallen Mphöpö, **Yi-Pai Huang**, Han-Ping David Shieh , “Zero-Barrier, Zero-Crosstalk Autostereoscopic 3-D Display System for Cinema and Home-Theater Multi-User Settings ”Society for Information Display 2009 (SID’09)
38. Hsin-Hsuan Huang, Cheng-Huan Chen, Yu-Cheng Chang, Yu-Cheng Lai, **Yi-Pai Huang**, Han-Ping D. Shieh, Chih-Wen Chen, “Direct View and Projection Switchable Mobile Displays ”Society for Information Display 2009 (SID’09)
39. Wallen Mphöpö, **Yi-Pai Huang**, Han-Ping David Shieh, Per Rudquist, “Digital-Micro-Hinge [DMH] Display System”, Society for Information Display 2009 (SID’09)
40. **(Best Poster Award)** Bo-Wen Xiao, Chien-Hsiang Hung, Hsin-Tao Huang, **Yi-Pai Huang**, Chung-Hao Tien, C. C. Tsai, and Han-Ping D. Shieh, “Optical Simulation and Analysis of Visible-light Excited Phosphor Sheet (VEPS) System”, Intl. Display Manufacturing Conference 2009 (IDMC’09)
41. **(Invited paper)** **Yi-Pai Huang**, Fang-Cheng Lin, Ching-Ming Wei, and Han-Ping D. Shieh, Chi-Chung Tsai and Wen-Chih Tai, “A Color Break-Up Suppression Method, Stencil-FSC Method, for Field-Sequential-Color(FSC) LCDs with low Power Consumption”, International Display Research Conference 2008. (IDRC’2008)
42. Ching-Yi Hsu, **Yi-Pai Huang**, Yu-Chen Chang, Zhi-Hong Ding, Chih-Ping Su, “NOVEL DEPTH-FUSED DISPLAY (DFD) SYSTEM WITH WIDE VIEWING 3D IMAGES”, Paper-192, 3DTV Conference 2008. (2008)
43. Wallen Mphöpö, Chi-Lin Wu, **Yi-Pai Huang** ,Shang-Chih Chuang, Cheng-Huan Chen, Han-Ping D. Shieh, Shih-Chia Hsu, Ching-Huan Lin, Chih-Jen Hu, “High Transmittance LC Pixel Design for Multi-View 3 D Mobile Display”, Society for Information Display 2008 (SID’08), pp. 1967-1970.(2008)
44. Ching-Yi Hsu, **Yi-Pai Huang**, Yu-Chen Chang, Zhi-Hong Ding, Chih-Ping Su, “Wide Viewing Angle 3D Depth-Fused Display (DFD) System”, Society for Information Display 2008 (SID’08), pp. 1655-1658. (2008)

45. Jen-Chieh Hsieh, **Yi-Pai Huang**, Chun-Ho Chen, Yu-Chun Lo, Jen-Yu Fang, Han-Ping D. Shieh, Gu-Sheng Yu, Tien Chiang, "Multi-Performance Film (MPF) for Highly Efficient LCD Backlights", Society for Information Display 2008 (SID'08), pp. 1606-1609. (2008)
46. Fang-Cheng Lin, **Yi-Pai Huang**, Ching-Ming Wei, Han-Ping D. Shieh, Chi-Chung Tsai, Wen-Chih Tai, "Stencil-FSC Method for Color Break-Up Suppression and Low Power Consumption in Field-Sequential LCDs", Society for Information Display 2008 (SID'08), pp. 1088-1091. (2008) *Selected as Special Section of J-SID: Best of SID'08 Symp.
47. Chun-Ho Chen, Ke-Horng Chen, **Yi-Pai Huang** Han-Ping D. Shieh, Ming-Tsung Ho, "Gray Level Redistribution in Field Sequential Color LCD Technique for Color Breakup Reduction", Society for Information Display 2008 (SID'08), pp. 1096-1099. (2008)
48. Hsin-Tao Huang, Chien-Hsiang Hung, **Yi-Pai Huang**, Chung-Hao Tien, C. C. Tsai, Han-Ping D. Shieh, Jeremy Lin, Jerry Chen, Patrick Chen, Win-Chi Chang," UV Excited Flat Lighting (UFL) System for LCD-TV Backlight Application" Society for Information Display 2008 (SID'08), pp. 862-865.(2008)
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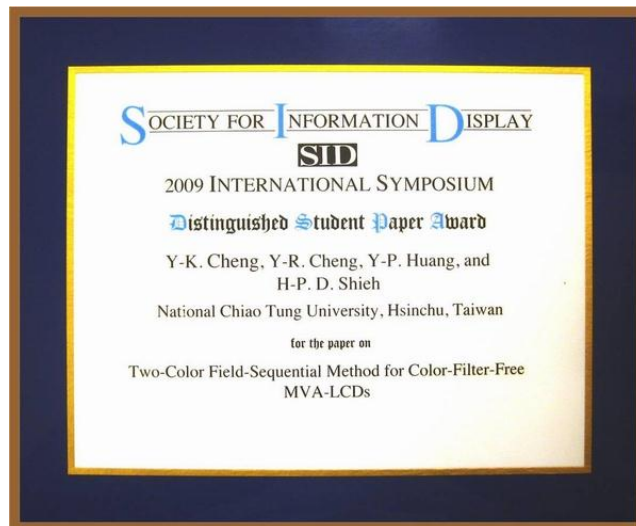
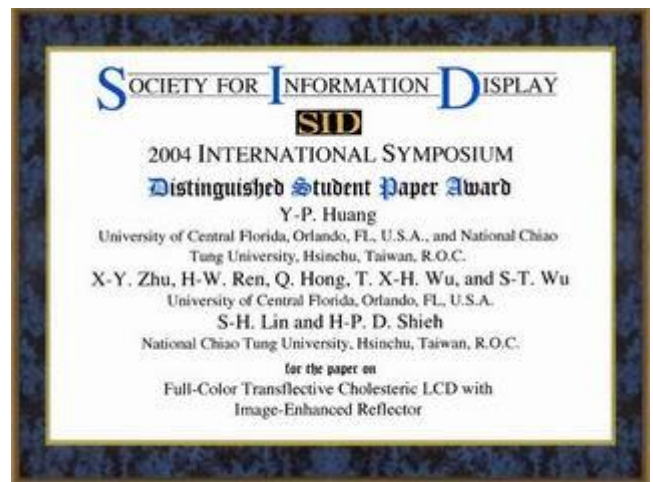
Title	Patent No.	Publication Date
INTERACTIVE THREE-DIMENSIONAL DISPLAY SYSTEM AND METHOD OF CALCULATING DISTANCE	US2011227819 (A1)	2011-09-22
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Certificate of Important Award:

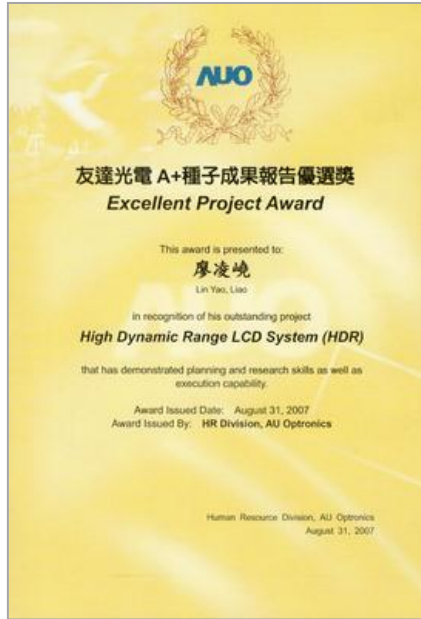
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Awards from Industrial Projects – ChungHwa Picture Tube LTD



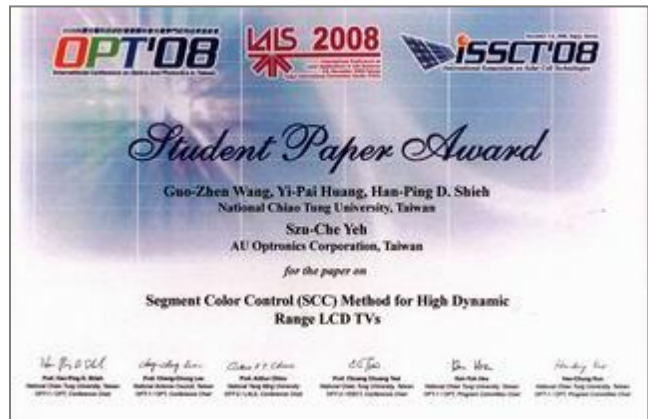
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