

Name: 李同益 Tong-Yee Lee (2016/Oct./27)

註：網址 http://graphics.csie.ncku.edu.tw/Tony/record_new.htm可取得主要期刊論文之相關 video簡介。

Journal Paper

(a). ACM/IEEE Transactions/Journals

1. **(2016)** Shih-Syun Lin, Chao-hung Lin Yu-Hsuan Kuo; Tong-Yee Lee, "Consistent Volumetric Warping Using Floating Boundaries for Stereoscopic Video Retargeting," *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 5, No. 26, May 2016, pp. 801-813 **(SCI/EI)**
2. **(2016)** Weiming Dong, Fuzhang Wu, Yan Kong, Xing Mei, Tong-Yee Lee, Xiaopeng Zhang, "Image Retargeting by Content-Aware Synthesis," *IEEE Transactions on Visualization and Computer Graphics*, vol. 22, No. 2, Feb. 2016, pp.1088~1101 **(SCI/EI)**
3. **(2016)** Yan Kong, Weiming Dong, Xing Mei, Chongyang Ma, Tong-Yee Lee, Siwei Lyu, Feiyue Huang, and Xiaopeng Zhang "Measuring and Predicting Visual Importance of Similar Objects" *IEEE Transactions on Visualization and Computer Graphics*, Vol. 22, No. 12, pp. 2564~2578, Dec., 2016 **(SCI/EI)**
4. **(2016)** Ying-Miao Kuo, Hung-Kuo Chu, Ming-Te Chi, Ruen-rone Lee, Tong-Yee Lee, "Ambiguous Figure-Ground Images," **(accepted)** *IEEE Transactions on Visualization and Computer Graphics* **(SCI/EI)**
5. **(2016)** Chih-Kuo Yeh, Shi-Yang Huang, Pradeep Kumar Jayaraman, Chi-Wing Fu, Tong-Yee Lee* "Interactive High-Relief Reconstruction for Organic and Double-sided Objects from a Photo," **(accepted)** *IEEE Transactions on Visualization and Computer Graphics* **(SCI/EI)**
6. **(2016)** Yi-Jheng Huang, Wen-Chieh Lin, I-Cheng Yeh, Tong-Yee Lee "A Cross-Type Blending Approach for Designing Stylized Models," **(major revision)** *IEEE Transactions on Visualization and Computer Graphics* **(SCI/EI)**
7. **(2015)** Shih-Syun Lin, Min-Chun Hu, Chien-Han Lee, Tong-Yee Lee* "Efficient QR Code Beautification with High Quality Visual Content." *IEEE Transactions on Multimedia*, Sept. Issue, pp. 1515-1524, 2015 **(SCI/EI)**
8. **(2015)** Ming-Te Chi, Shih-Syun Lin, Shiang-Yi Chen, Chao-Hung Lin, Tong-Yee Lee*, "Morphable Word Clouds for Time-varying Text Data Visualization," *IEEE Transactions on Visualization and Computer Graphics*, No.12 - Dec. ,vol.21, pp: 1415-1426, 2015 **(SCI/EI)** **(also presented at ACM SIGGRAPH Asia, Kobe, Japan, Nov. 2-5. 2015)**
9. **(2015)** Chih-Kuo Yeh, Pradeep Kumar Jayaraman, Xiaopei Liu, Chi-Wing Fu, Tong-Yee Lee* "2.5D Cartoon Hair Modeling and Manipulation" *IEEE Transactions on Visualization and Computer Graphics*, Vol. 21, No.1, 2015, pp.

304-314 (SCI/EI)

10. (2014) Shih-Syun Lin, Chao-Hung Lin, Shu-Huai Chang, Tong-Yee Lee, "Object-Coherence Warping for Stereoscopic Image Retargeting," *IEEE Transactions on Circuits and Systems for Video Technology*, Vol. 24, Issue No. 5, May 2014, pp. 759-768 (SCI/EI)
11. (2014) Shih-Syun Lin, Chao-Hung Lin, Yan-Jhang Hu, Tong-Yee Lee, "Drawing Road Networks with Mental Maps," *IEEE Transactions on Visualization and Computer Graphics*, Vol. 20, No.9, pp. 1241-1252, Sept. Issue, 2014. (SCI/EI) (also presented at ACM SIGGRAPH Asia 2014, Shenzhen, China. Dec. 2014)
12. (2014) Weiming Dong, Ning Zhou, Tong-Yee Lee, Fuzhang Wu, Yan Kong and Xiaopeng Zhang, "Summarization-Based Image Resizing by Intelligent Object Carving," *IEEE Transactions on Visualization and Computer Graphics*, Vol. 20, No. 1, Jan. Issue, 2014, pp. 111-124 (SCI/EI, ISI ranking: [4/103=3.8%@2011](#))
13. (2013) Shih-Syun Lin, Chao-Hung Lin, I-Cheng Yeh, Shu-Huai Chang, Chih-Kuo Yeh, Tong-Yee Lee, "Content-aware Video Retargeting Using Object-preserving Warping," *IEEE Transactions on Visualization and Computer Graphics*, Vol. 19, No. 10, Oct. 2013, pp. 1677-1688. (SCI/EI, ISI ranking: [4/103=3.8%@2011](#))
14. (2013) Shih-Syun Lin, I-Cheng Yeh, Chao-Hung Lin, Tong-Yee Lee, "Patch-based Image Warping for Content-Aware Retargeting," *IEEE Transactions on Multimedia*, Vol. 15, No. 2, 2013, Feb., pp. 359 - 368 (SCI/EI)
15. (2013) YuShuen Wang, Feng Liu, Pu-Sheng Hsu, Tong-Yee Lee, "Spatially and Temporally Optimized Video Stabilization," *IEEE Transactions on Visualization and Computer Graphics*, Vol. 19, No. 8, pp. 1354-61, 2013. (SCI/EI, ISI ranking: 4/103=3.8%@2011)
16. (2013) Chih-Kuo Yeh, Peng Song, Peng-Yen Lin, Chi-Wing Fu, Chao-Hung Lin, Tong-Yee Lee*, "Double-sided 2.5D Graphics," *IEEE Transactions on Visualization and Computer Graphics*, Vol., 19, No. 2, Feb., pp. 225-235, 2013 (SCI/EI, ISI ranking: 4/103=3.8%@2011)
17. (2012) Min-Wen Chao, Chao-Hung Lin, Jackie Assa, Tong-Yee Lee*, "Human Motion Retrieval from Hand-drawn Sketch," *IEEE Transactions on Visualization and Computer Graphics*, Vol. 18, No. 5, May Issue, pp. 729-740, 2012. (SCI/EI, ISI ranking: 4/103=3.8%@2011)
18. (2012) Zhi-Yuan Yao, Ming-Te Chi, Tong-Yee Lee*, Tao Ju, "Region-Based Line Field Design Using Harmonic Functions," Vol. 18, No. 6, June Issue, *IEEE Transactions on Visualization and Computer Graphics*, pp. 902-913, 2012 (SCI/EI, ISI ranking: 4/103=3.8%@2011)
19. (2012) Hongchuan YU, Tong-Yee Lee, I-Cheng Yeh, Xiaosong Yang, Wenxi Li and Jian J. Zhang, "RBF-based Reparameterization Method for Constrained Texture Mapping," *IEEE Transactions on Visualization and Computer*

- Graphics*, July 2012 (vol. 18 no. 7) pp. 1115-1124 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011)
20. **(2012)** Kun-Chuan Feng, Chaoli Wang, Han-Wei Shen, **Tong-Yee Lee***, “Coherent Time-Varying Graph Drawing with Multi-Focus+Context Interaction,” *IEEE Transactions on Visualization and Computer Graphics*, Vol. 18, No. 8, August 2012, pp. 1330-1342 2012 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011)
 21. **(2012)** I-Cheng Yeh, Wen-Chieh Lin, **Tong-Yee Lee***, Hsin-Ju Han, Jehee Lee, Manmyung Kim, “Social-Event-Driven Camera Control for Multi-Character Animations,” *IEEE Transactions on Visualization and Computer Graphics*, Vol. 18, No. 9, pp. 1496-1510 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011)
 22. **(2011)** I-Cheng Yeh, Chao-Hung Lin, Olga Sorkine, **Tong-Yee Lee***, “Template-based 3D Model Fitting Using Dual-domain Relaxation,” *IEEE Transactions on Visualization and Computer Graphics*, Vol., 17, No. 8, pp. 1178-1190, 2011 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011)
 23. **(2011)** YuShuen Wang, Jen-Hung Hsiao, Olga Sorkine, **Tong-Yee Lee**, “Scalable and Coherent Video Resizing with Per-Frame Optimization,” *ACM Transaction on Graphics* (also in **Proceedings of SIGGRAPH 2011國際頂尖重要會議**), Vol. 30, No.4, Aug 2011 (**SCI/EI**, ISI ranking: 2/103=**1.9%**@2011)
 24. **(2011)** YuShuen Wang, Chaoli Wang, **Tong-Yee Lee***, Kwan-Liu Ma, “Feature-Preserving Volume Data Reduction and Focus+Context Visualization,” *IEEE Transactions on Visualization and Computer Graphics*, Vol. 17, No.2, Feb. Issue, pp. 171-181, 2011 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011)
 25. **(2010)** Huisi Wu, Yushuen Wang, Kun-Chuan Feng, Tien-Tsin Wong, **Tong-Yee Lee**, Pheng-Ann Heng, “Resizing by Summarization”, Vol. 29, No. 6, Article No. 159, *ACM Transactions on Graphics* (also in **Proceedings of SIGGRAPH Asia 2010國際頂尖重要會議**), Seoul, 2010 (**SCI/EI**, ISI ranking: 2/103=**1.9%**@2011)
 26. **(2010)** YuShuen Wang, Hui-Chih Lin, Olga Sorkine, **Tong-Yee Lee***, “Motion-based Video Retargeting with Optimized Crop-and-Warp,” *ACM Transaction on Graphics* (also in **Proceedings of SIGGRAPH 2010國際頂尖重要會議**), Vol. 29, No.3, Article No. 90, pp. 1-9, July 2010 (**SCI/EI**, ISI ranking: 2/103=**1.9%**@2011)
 27. **(2010)** Hung-Kuo Chu, Wei-Hsin Hsu, Niloy J. Mitra, Daniel Cohen-Or, Tien-Tsin Wong, **Tong-Yee Lee***, “Camouflage Images,” *ACM Transaction on Graphics* (also in **Proceedings of SIGGRAPH 2010國際頂尖重要會議**), Vol. 29, No.3, Article No. 51, pp. 1-8, July 2010 (**SCI/EI**, ISI ranking: 2/103=**1.9%**@2011)
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29. (2009) YuShuen Wang, Hongbo Fu, Olga Sorkine, Tong-Yee Lee*, and Hans-Peter Seidel, “Motion-Aware Temporal Coherence for Video Resizing,” *ACM Transaction on Graphics* (also in **Proceedings of SIGGRAPH Asia 2009國際頂尖重要會議**), Vol. 28, No.5, Article: 127, Dec. 2009, (SCI/EI, ISI ranking: 2/103=**1.9%**@2011)
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 31. (2009) Hung-Kuo Chu, Tong-Yee Lee*, “Multi-resolution Mean Shift Clustering Algorithm for Shape Interpolation,” *IEEE Transactions on Visualization and Computer Graphics*, vol. 15, No. 5, pp. 853-866, 2009 (SCI/EI, ISI ranking: 4/103=**3.8%**@2011).
 32. (2009) Min-Wen Chao, Chao-Hung Lin, Cheng-Wei Yu and Tong-Yee Lee*, “A High Capacity 3D Steganography Algorithm,” *IEEE Transactions on Visualization and Computer Graphics*, March/April ,vol. 15 no. 2, pp. 274-284,2009 (SCI/EI, ISI ranking: 4/103=**3.8%**@2011).
 33. (2008) Ming-Te Chi, Tong-Yee Lee*, Yingge Qu, Tien-Tsin Wong, “Self-Animating Images: Illusory Motion Using Repeated Asymmetric Patterns,” *ACM Transaction on Graphics* (also in **Proceedings of ACM SIGGRAPH 2008國際頂尖重要會議**) Vol. 27, No.3, Article: 62, August 2008 (SCI/EI, ISI ranking: 2/103=**1.9%**@2011)
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38. **(2008)** Tong-Yee Lee*, Shao-Wei Yen I-Cheng Yeh, "Texture Mapping with Hard Constraints Using Warping Scheme," *IEEE Transactions on Visualization and Computer Graphics* March/April, Vol. 14, No. 2, pp. 382-395, 2008 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011).
 39. **(2008)** Chung-Ren Yan, Ming-Te Chi, Tong-Yee Lee*, Wen-Chieh Lin, "Stylized Rendering Using Samples of a Painted Image," *IEEE Transactions on Visualization and Computer Graphics* March/April, Vol. 14, No. 2, pp. 468-480, 2008 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011).
 40. **(2008)** Tong-Yee Lee*, Chao-Hung Lin, Yu-Shuen Wang, Tai-Guang Chen, "Animation Key-frame Extraction and Simplification Using Deformation Analysis," *IEEE Transactions on Circuits and Systems for Video Technology*, April, Vol. 18, No. 4, 2008, pp. 478-486 (**SCI/EI**, ISI ranking : 24/229=**10%**, 41/227=**18%**@2007)
 41. **(2008)** Yu-Shuen Wang, Tong-Yee Lee*, "Curve Skeleton Extraction Using Non-Linear Least Squares Optimization," *IEEE Transactions on Visualization and Computer Graphics*, July/Aug, Vol. 14, No. 4. 2008, pp. 926-936 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011).
 42. **(2008)** Zhi-Yuan Yao, Tong-Yee Lee*, "Adaptive Geometry Image," *IEEE Transactions on Visualization and Computer Graphics*, July/Aug, Vol. 14, No. 4., 2008, pp. 948-960 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011).
 43. **(2007)** Tong-Yee Lee*, Chung-Ren Yen, Ming-Te Chi, "Stylized Rendering for Anatomic Visualization," , Special Issue - Anatomic Rendering and Visualization, *IEEE Computing in Science & Engineering* , vol. 9, no. 1, pp. 13-19, Jan/Feb, 2007 (**SCI/EI**)
 44. **(2006)** Ming-Te Chi, Tong-Yee Lee*, "Stylized and Abstract Painterly Rendering System Using a Multi-Scale Segmented Sphere Hierarchy", VOL. 12, NO. 1, JANUARY/FEBRUARY, pp. 61-72, 2006, *IEEE Transactions on Visualization and Computer Graphics* (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011).
 45. **(2005)** Chao-Hung Lin, Tong-Yee Lee*, "Metamorphosis of 3D Polyhedral Models Using Progressive Connectivity Transformations," *IEEE Transactions on Visualization and Computer Graphics* Jan./Feb. Issue, Vol. 11, No.1, pp. 2-12, 2005 (**SCI/EI**, ISI ranking: 4/103=**3.8%**@2011).
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(b). Other International Journals

- 1 (2014) Chih-Kuo Yeh, Hung-Kuo Chu, Min-Jen Chang, **Tong-Yee Lee***, "Anamorphic Image Generation Using Hybrid Texture Synthesis," *Journal of Information Science and Engineering*, 2014 (accepted) (SCI/EI)
- 2 (2014) Hongchuan Yu, Jian J. Zhang, **Tong-Yee Lee**, "Foldover-free Shape Deformation For Biomedicine," *Journal of Biomedical Informatics*, 48(2014), pp. 137-147, 2014 (Impact Factor 2.131 @2012) (SCI/EI)
- 3 (2014) Ming-Te, Chih-Yuan Yao, Eugene Zhang, **Tong-Yee Lee**, "Optical Illusion Shape Texturing using Repeated Asymmetric Patterns " *The Visual Computer Journal*, July 30(2014), pp. 809-819, 2014 (SCI/EI)
- 4 (2013) Chih -Kuo Yeh, Zhanping Liu, David Kuo, **Tong-Yee Lee***, "Animating streamlines with repeated asymmetric patterns for steady flow visualization, " *Journal of Information Visualization*, July-October 2013 vol. 12 no. 3-4 pp.

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- 5 (2011) Min-Wen Chao, Chao-Hung Lin, Chih-Chieh Chang, **Tong-Yee Lee***,
“A Graph-based Shape Matching Scheme for 3D Articulated Objects ”
Computer Animation and Virtual Worlds Journal Vol.22, pp. 295-305,
April-May 2011 (a special issue of 24th Annual Conference on Computer
Animation and Social Agents, May 26-28, 2011 in Chengdu, China) (**SCI/EI**)
 - 6 (2011) I-Cheng Yeh, Chao-Hung Lin, Hung-Jen Chien, **Tong-Yee Lee***,
“Efficient Camera Path Planning Algorithm for Human Motion Overview ”
Computer Animation and Virtual Worlds Journal Vol.22, pp. 239-250,
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 - 7 (2010) Chao-Hung Lin, Min-Wen Chao, Chan-Yu Liang, **Tong-Yee Lee***, “A
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Turkey, June 2008) (**SCI/EI**)
 - 11 (2008) Ping-Hsien Lin, Hung-Kuo Chu, **Tong-Yee Lee***, “Smooth Shape
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 - 12 (2008) Yu-Shuen Wang, Chao-Hung Lin, **Tong-Yee Lee***, “Interactive Model
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Zhi-Yuan Yao, Jin-Lung Lin, “Exaggeration Cloning From Example
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- 15 (2007) Tong-Yee Lee*, Shaur-Wei Yan, "Texture Mapping on 3D Surfaces Using Clustering-based Cutting Paths," *International Journal of Computational Science and Engineering*, Volume 3 No 1, pp. 71-79, 2007 (EI)
 - 16 (2007) Ping-Hsien Lin, Tong-Yee Lee*, and C. F. Lin, "Free-Form Deformation for Point-Sampled Surface," *Journal of Information Science & Engineering*, Vol. 23, No. 3 (May issue), pp.757-771, 2007. (SCI/EI)
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 - 18 (2006) Chun-Rong Huang, Pau-Choo Chung, Tong-Yee Lee , Sheng-Chih Yang, San-Kan Lee, "Reconstruction and Rendering of Microcalcifications from Two Mammogram Views by Modified Projective Grid Space (MPGS)," *Computerized Medical Imaging & Graphics*, pp. 123-133. (SCI/EI)
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Patents

- 虛擬海洋生物系統 (發明專利證號： 305315, 公告日期：中華民國 98年 01月 11日)
- US Provisional Patent Application No. 61/334,953, \Apparatus, systems, computer-accessible medium and methods for video cropping, temporally-coherent warping and retargeting" (**Note: will be licensed to Walt Disney**)
- 099-080EP-TW1 一種不等比例影像縮放之處理方法(PD 4293) 099127214 (pending)
- 099-080EP-TW2 一種顯示器之影片播放系統 (PD 4293-1) 099127215 (pending)
- 099-080EP-TW3 一種影片資料處理系統 (PD 4293-2)099127216 (pending)
- 099-080EP-TW4 一種觸控系統 (PD 4293-3) 099127217 (pending)
- 099-080EP-TW5 一種影片輸出格式系統 (PD 4293-4) 099127218 (pending)
- 099-080EP-TW6 一種不等比例影片縮放之圖像處理器 (PD4293-5) 099127219 (pending)