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RESEARCH INTERESTS

Computer Vision, Pattern Recognition, Augmented Reality, Medical Image Analysis, Visual Privacy Protection, Human Computer Interaction

EDUCATION

Ph.D., Computer Science, University of Maryland, College Park, MD, USA, 2006

- Dissertation: “Techniques for Image Retrieval: Deformation Insensitivity and Automatic Thumbnail Cropping”
- Advisor: Professor David W. Jacobs

M.S., Computer Science, Peking University, Beijing, China, 2000

- Thesis: “Methods for Geographic Data Rectification”
- Advisor: Professor Kunqiu Chen

B.S., Mathematics, Peking University, Beijing, China, 1997

- Major in Probability and Statistics, Minor in Computer Software

EMPLOYMENT HISTORY

- Associate Professor, Temple University Philadelphia, PA USA, 2014-present
Assistant Professor 2008-2014
Department of Computer and Information Sciences
- Research Scientist, Siemens Corporate Research Princeton, NJ USA, 2007-2008
- Postdoc, University of California Los Angeles Los Angeles, CA USA, 2006-2007
Supervisor: Professor Stefano Soatto
- Graduate Assistant, University of Maryland College Park, MD USA, 2001-2006
- Summer Intern, Siemens Corporate Research Princeton, NJ USA, 2005
Mentor: Dr. Kazunori Okada
- Summer Intern, Microsoft Corporation Redmond, WA USA, 2002
- Assistant Researcher, Microsoft Research Asia Beijing, China, 2000-2001
- Software Engineer, Founder Group Corporation Beijing, China, 2000

HONORS AND AWARDS

- NSF CAREER Award, 2014
- Horvitz Research Assistantship, 2004-2006
- Best Student Paper, ACM UIST 2003
- Kodak Scholarship, 1999-2000
- Guanghai Scholarship, 1998-1999

PUBLICATIONS

Google Scholar Profile: <http://scholar.google.com/citations?user=jWx3qtIAAAAJ&hl=en>.

Journal Articles

1. Wei Jia, Bob Zhang, Jingting Lu, Yihai Zhu, Yang Zhao, Wangmeng Zuo, and Haibin Ling. "Palmprint Recognition Based on Completed Directional Representation," *IEEE Trans. on Image Processing (T-IP)*, accepted.
2. Yong Xu, Tangquan Qi, Yuhui Quan, Yaodong Wang, and Haibin Ling. "Image-Based Action Recognition Using Hint-Enhanced Deep Neural Networks," *Neurocomputing*, accepted.
3. Shuai Di, Honggang Zhang, Chun-Guang Li, Xue Mei, Danil Prokhorov, and Haibin Ling. "Cross-domain Traffic Scene Understanding: A Dense Correspondence based Transfer Learning Approach," *IEEE Trans. on Intelligent Transportation Systems (T-ITS)*, accepted.
4. Xin Liang, Zuyan Zhang, Jianping Gu, Zhihui Wang, Bart Vandenberghe, Reinhilde Jacobs, Jie Yang, Guowu Ma, Haibin Ling, and Xuchen Ma. "Comparison of Micro-CT and Cone Beam CT on the Feasibility of Assessing Mandibular Trabecular Structures", *Dentomaxillofacial Radiology (DMFR)*, in press.
5. Nianyi Li, Jinwei Ye, Yu Ji, Haibin Ling, and Jingyi Yu. "Saliency Detection on Light Field," *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, in press.
6. Qin Zhou, Shibao Zheng, Haibin Ling, Hang Su, and Shuang Wu. "Joint Dictionary and Metric Learning for Person Re-identification." *Pattern Recognition*, in press.
7. Haiqiang Zuo, Heng Fan, Erik Blasch, and Haibin Ling. "Combining Convolutional and Recurrent Neural Networks for Human Skin Detection," *IEEE Signal Processing Letters (SPL)*, 24(3):289-293, 2017.
8. Junliang Xing, Kai Li, Weiming Hu, Chunfeng Yuan, and Haibin Ling. "Diagnosing deep learning models for high accuracy age estimation from a single image", *Pattern Recognition*, 66:106-116, 2017.
9. Kui Liu, Sixiao Wei, Zhijiang Chen, Bin Jia, Genshe Chen, Haibin Ling, Carolyn Sheaff, and Erik Blasch. "A Real-Time High Performance Computation Architecture for Multiple Moving Target Tracking based on Wide-Area Imagery via Cloud and Graphic Processing Units." *Sensors*, 17(2):356, 2017.
10. Xiaojie Guo, Yu Li, and Haibin Ling. "LIME: Low-light IMage Enhancement via Illumination Map Estimation," *IEEE Trans. on Image Processing (T-IP)*, 26(2): 982-993, 2017.
11. Haoran Wang, Wankou Yang, Chunfeng Yuan, Haibin Ling, and Weiming Hu. "Human Activity Prediction Using Temporally-Weighted Generalized Time Warping," *Neurocomputing*, 225: 139-147, 2017.
12. Ryan Wu, Bingwei Liu, Yu Chen, Erik Blasch, Haibin Ling, and Genshe Chen. "A Container-based Elastic Cloud Architecture for Pseudo Real-time Exploitation of Wide Area Motion Imagery (WAMI) Stream." *Journal of Signal Processing Systems*, in press.
13. Jifeng Shen, Xin Zuo, Jun Li, Wankou Yang, and Haibin Ling. "A Novel Pixel Neighborhood Differential Statistic Feature for Pedestrian and Face Detection", *Pattern Recognition*, 63:127-138, 2017.
14. Houwen Peng, Bing Li, Haibin Ling, Weiming Hu, Weihua Xiong, and Stephen Maybank. "Salient Object Detection via Structured Matrix Decomposition," *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 39(4):818-832, 2017.

15. Tao Wang, Haibin Ling, Congyan Lang, and Songhe Feng. “Symmetry-Aware Graph Matching”, *Pattern Recognition*, 60:657-668, 2016.
16. Xi Li, Liming Zhao, Lina Wei, Ming-Hsuan Yang, Fei Wu, Yueting Zhuang, Haibin Ling, and Jingdong Wang. “DeepSaliency: Multi-Task Deep Neural Network Model for Salient Object Detection,” *IEEE Trans. on Image Processing (T-IP)*, 25(8):3919-3930, 2016.
17. Pengpeng Liang, Yu Pang, Chunyuan Liao, Xue Mei, and Haibin Ling. “Adaptive Objectness for Object Tracking,” *IEEE Signal Processing Letters (SPL)*, 23(7):949-953, 2016.
18. Guanyu Xing, Yanli Liu, Wanfa Zhang, and Haibin Ling. “Light Mixture Intrinsic Image Decomposition Based on a Single RGB-D Image”, *the Visual Computer*, 32(6-8): 1013-1023, 2016.
19. Pengpeng Liang, Erik Blasch, and Haibin Ling. “Encoding Color Information for Visual Tracking: Algorithms and Benchmark,” *IEEE Trans. on Image Processing (T-IP)*, 24(12):5630-5644, 2015.
20. Liang Du and Haibin Ling. “Dynamic Scene Classification Using Redundant Spatial Pooling,” *IEEE Trans. on Cybernetics*, 46(9):2156-2165, 2016.
21. Qi Zou, Haibin Ling, Siwei Luo, Yaping Huang, and Mei Tian. “Robust Nighttime Vehicle Detection by Tracking and Grouping Headlights,” *IEEE Trans. on Intelligent Transportation Systems (T-ITS)*, 16(5):2838-2849, 2015.
22. Haitao Lang and Haibin Ling. “Covert Photo Classification by Fusing Image Features and Visual Attributes,” *IEEE Trans. on Image Processing (T-IP)*, 24(10):2996-3008, 2015.
23. Yong Xu, Yuhui Quan, Zhuming Zhang, Haibin Ling, and Hui Ji. “Classifying Dynamic Textures via Spatiotemporal Fractal Analysis”, *Pattern Recognition*, 48(10), 3239-3248, 2015.
24. Weiming Hu, Nianhua Xie, Ruiguang Hu, Haibin Ling, Qiang Chen, Shuicheng Yan, and Stephen Maybank. “Bin Ratio-Based Histogram Distances and Their Application to Image Classification,” *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 36(12): 2338-2352, 2014.
25. Erkang Cheng, Liang Du, Yi Wu, Ying Zhu, Vasileios Megalooikonomou, and Haibin Ling. “Discriminative Vessel Segmentation in Retinal Images by Fusing Context-Aware Hybrid Features,” *Machine Vision and Applications (MVA)*, 25(7): 1779-1792, 2014.
26. Haibin Ling, Xiong Yang, Peiyi Li, Vasileios Megalooikonomou, Yong Xu, and Jie Yang. “Cross gender-age trabecular texture analysis in dental cone beam computed tomography”, *Dentomaxillofacial Radiology (DMFR)*, 43:20130324, 2014.
27. Weiming Hu, Ruiguang Hu, Nianhua Xie, Haibin Ling, and Stephen Maybank. “Image Classification Using Multi-Scale Information Fusion Based on Saliency Driven Nonlinear Diffusion Filtering,” *IEEE Trans. on Image Processing (T-IP)*, 23(4):1513-1526, 2014.
28. Rongxiang Hu, Wei Jia, Haibin Ling, Y. Zhao, and Jie Gui. “Angular Pattern and Binary Angular Pattern for Shape Retrieval,” *IEEE Trans. on Image Processing (T-IP)*, 23(3):1118-1127, 2014.
29. Yi Wu, Bin Shen, and Haibin Ling. “Visual Tracking via Online Sparse Nonnegative Representation on Manifold”, *IEEE Trans. on Circuits and Systems for Video Technology (T-CSVT)*, 24(3): 374-383, 2014.
30. Chunfeng Yuan, Xi Li, Weiming Hu, Haibin Ling, and Stephen Maybank. “Modeling Geometric-Temporal Context with Directional Pyramid Co-occurrence for Action Recognition”, *IEEE Trans. on Image Processing (T-IP)*, 23(2):658-672, 2014.

31. Haoran Wang, Chunfeng Yuan, Weiming Hu, Haibin Ling, Wankou Yang, and Changyin Sun. “Action Recognition Using Non-negative Action Component Representation and Sparse Basis Selection,” *IEEE Trans. on Image Processing (T-IP)*, 23(2):570–581, 2014.
32. Jin Sun and Haibin Ling. “Scale and Object Aware Image Thumbnailing”, *International Journal of Computer Vision (IJCV)*, 104:135–153, 2013.
33. Xue Mei, Haibin Ling, Yi Wu, Erik Blasch, and Li Bai. “Efficient Minimum Error Bounded Particle Resampling L1 Tracker with Occlusion Detection,” *IEEE Trans. on Image Processing (T-IP)*, 22(7): 2661–2675, 2013.
34. Xiaoqin Zhang, Wei Li, Weiming Hu, Haibin Ling, and Stephen Maybank. “Block Covariance Based ℓ_1 Tracker with a Subtle Template Dictionary”, *Pattern Recognition*, 46(7):1750–1761, 2013.
35. Hui Ji, Xiong Yang, Haibin Ling, and Yong Xu. “Wavelet Domain Multi-fractal Analysis for Static and Dynamic Texture Classification”, *IEEE Trans. on Image Processing (T-IP)*, 22(1):286–299, 2013.
36. Rongxiang Hu, Wei Jia, Haibin Ling, and Deshuang Huang. “Multiscale Distance Matrix for Fast Plant Leaf Recognition,” *IEEE Trans. on Image Processing (T-IP)*, 21(11):4667–4672, 2012.
37. Li An, Haibin Ling, Zoran Obradovic, Desmond J. Smith, and Vasileios Megalooikonomou. “Learning pair-wise gene functional similarity by multiplex gene expression maps”, *BMC Bioinformatics*, 13(S-3):S1, 2012.
38. Yi Wu, Jian Cheng, Jinqiao Wang, Hanqing Lu, Jun Wang, Haibin Ling, Erik Blasch, and Li Bai, “Real-time Probabilistic Covariance Tracking with Efficient Model Update”, *IEEE Trans. on Image Processing (T-IP)*, 21(5): 2824–2837, 2012.
39. Jingting Zeng, Haibin Ling, Longin Jan Latecki, Shanon Fitzhugh, and Guodong Guo, “Analysis of Facial Images Across Age Progression by Humans,” *ISRN Machine Vision*, Article ID 505974, 2012.
40. Xue Mei and Haibin Ling, “Robust Visual Tracking and Vehicle Classification via Sparse Representation,” *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 33(11):2259–2272, 2011.
41. Xue Mei, Haibin Ling, and David Jacobs, “Illumination Recovery from Image with Cast Shadows via Sparse Representation”, *IEEE Trans. on Image Processing (T-IP)*, 20(8):2366–2377, 2011.
42. Mei Zhang, Hanmei Chen, and Haibin Ling, “Restatement and Audit Risk,” *Financial Decisions*, 12(1):1-14, 2011.
43. Hanmei Chen, Mei Zhang, and Haibin Ling, “How Does the Distinguishment between Errors and Irregularities Impact Audit Risk? Evidence from Restatement.” *Global Review of Accounting and Finance*, 2(2):1-11, 2011.
44. ChengEn Lu, Nagesh Adluru, Haibin Ling, Guangxi Zhu, and Longin Jan Latecki. “Contour Based Object Detection Using Part-Bundles,” *Computer Vision and Image Understanding (CVIU)*, 114(7):827–834, 2010.
45. Haibin Ling, Stefano Soatto, Narayanan Ramanathan, and David Jacobs. “Face Verification across Age Progression using Discriminative Methods.” *IEEE Trans. on Information Forensics & Security (TIFS)*, 5(1):82-91, 2010.

46. Haibin Ling and Kazunori Okada, “An Efficient Earth Mover’s Distance Algorithm for Robust Histogram Comparison,” *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 29(5):840-853, 2007.
47. Haibin Ling and David Jacobs, “Shape Classification Using the Inner-Distance”, *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, 29(2):286-299, 2007.
48. Gaurav Agarwal, Peter Belhumeur, Steven Feiner, David Jacobs, John Kress, Ravi Ramamoorthi, Norman Bourg, Nandan Dixit, Haibin Ling, Dhruv Mahajan, Rusty Russell, Sameer Shirdhonkar, Kalyan Sunkavalli, and Sean White, “First Steps Toward an Electronic Field Guide for Plants,” *Taxon*, 55(3):597-610, 2006.

Magazine

49. Dan Shen, Genshe Chen, Haibin Ling, Khanh Pham, and Erik Blasch. “Improving coordination of unmanned vehicles”, *SPIE Newsroom*, August 2014.
50. Jianjun Gao, Haibin Ling, Erik Blasch, Khanh Pham, Zhonghai Wang, and Genshe Chen. “Context-aware tracking with wide-area motion imagery”, *SPIE Newsroom*, 2013.

Book Chapters

51. Ning Chen, Yu Chen, Xinyue Ye, Haibin Ling, Sejun Song, and Chin-Tser Huang. “Smart City Surveillance in Fog Computing,” In *Advances in Mobile Cloud Computing and Big Data in the 5G Era*, C.X. Mavromoustakis et al. (eds.), 2017.
52. Erik Blasch, Riad I. Hammoud, Haibin Ling, Dan Shen, James Nagy, and Genshe Chen. “Context-Based Fusion of Physical and Human Data for Level 5 Information Fusion.” In *Context-Enhanced Information Fusion*, Lauro Snidaro, Jess Garcia, James Llinas, Erik Blasch (Eds), pp. 479-505, 2016.
53. Erik Blasch, Pengpeng Liang, Xinchu Shi, Peiyi Li, and Haibin Ling. “Entity Association Using Context for Wide Area Motion Imagery Target Tracking.” In *Context-Enhanced Information Fusion*, Lauro Snidaro, Jess Garcia, James Llinas, Erik Blasch (Eds), pp. 569-595, 2016.
54. Andrea Vedaldi, Haibin Ling, and Stefano Soatto. “Knowing a good feature when you see it: ground truth and methodology to evaluate local features for recognition.” In *Computer Vision: Detection, Recognition and Reconstruction*, R. Cipolla, S. Battiato and G.-M. Farinella (Eds), pp. 27–49, Springer, 2010.
55. Haibin Ling and David Jacobs. “Shape Matching for Foliage Database Retrieval”, in *Semantic Mining Technologies for Multimedia Databases*, D. Tao, D. Xu, and X. Li (Eds), pp. 100–129, Idea Group Inc., 2009.

Selected Conference Publication

56. Xiaojie Guo, Xiaobo Wang, Jiayi Ma, and Haibin Ling. “Exclusivity Regularized Machine: A New Ensemble SVM Classifier”, in *Proc. of Int’l Joint Conf. on Artificial Intelligence (IJCAI)*, 2017.
57. Lin Chen, Fan Zhou, Yu Shen, Xiang Tian, Haibin Ling, and Yaowu Chen. “Illumination Insensitive Efficient Second-order Minimization for Planar Object Tracking.” in *Proc. of IEEE Int’l Conference on Robotics and Automation, (ICRA)*, 2017.

58. Chunjuan Bo, Xin Liang, Peng Chu, Jonathan Xu, Dong Wang, Jie Yang, Vasileios Megalooikonomou, and Haibin Ling. “Osteoporosis Prescreening Using Dental Panoramic Radiographs Feature Analysis,” in *Proc. of IEEE Int’l Symposium on Biomedical Imaging (ISBI)*, 2017.
59. Tao Wang, Haibin Ling, Congyan Lang, and Jun Wu. “Branching Path Following for Graph Matching”, in *European Conf. on Computer Vision (ECCV)*, 508-523, 2016.
60. Peng Chu, Yu Pang, Erkang Cheng, Ying Zhu, Yefeng Zheng, and Haibin Ling, “Structure-Aware Rank-1 Tensor Approximation for Curvilinear Structure Tracking Using Learned Hierarchical Features”, In *Proc. of the Int’l Conf. on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2016.
61. Hang Su, Yinpeng Dong, Jun Zhu, Haibin Ling, and Bo Zhang. “Crowd Scene Understanding with Coherent Recurrent Neural Networks”, in *Proc. of Int’l Joint Conf. on Artificial Intelligence (IJCAI)*, 3469-3476, 2016.
62. Xinchu Shi, Haibin Ling, Weiming Hu, Junliang Xing, and Yanning Zhang. “Tensor Power Iteration for Multi-Graph Matching”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2016.
63. Tao Wang and Haibin Ling. “Path Following with Adaptive Path Estimation for Graph Matching”, in *Proc. of AAAI Conference on Artificial Intelligence (AAAI)*, 3625-3631, 2016.
64. Peiyi Li, Xi Li, Chunyuan Liao, and Haibin Ling. “3D Hand Pose Estimation Using Randomized Decision Forest with Segmentation Index Points.” In *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, 819-827, 2015.
65. Houwen Peng, Kai Li, Bing Li, Haibin Ling, Weihua Xiong, and Weiming Hu. “Predicting Image Memorability by Multi-view Adaptive Regression.” In *Proc. of ACM Multimedia Conference (MM)*, 1147-1150, 2015.
66. Liang Du and Haibin Ling. “Cross-Age Face Verification by Coordinating with Cross-Face Age Verification”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2329-2338, 2015.
67. Jin Gao, Haibin Ling, Weiming Hu, and Junliang Xing. “Transfer Learning Based Visual Tracking with Gaussian Process Regression”, *European Conf. on Computer Vision (ECCV)*, Zurich, 2014.
68. Liang Du and Haibin Ling. “Exploiting Competition Relationship for Robust Visual Recognition”, in *Proc. of AAAI Conference on Artificial Intelligence (AAAI)*, Quebec, 2014.
69. Xinchu Shi, Haibin Ling, Weiming Hu, Chunfeng Yuan, and Junliang Xing. “Multi-target Tracking with Motion Context in Tensor Power Iteration”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2014.
70. Erkang Cheng, Yu Pang, Ying Zhu, Jingyi Yu, and Haibin Ling. “Curvilinear Structure Tracking by Low Rank Tensor Approximation with Model Propagation”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2014.
71. Nianyi Li, Jinwei Ye, Yu Ji, Haibin Ling, and Jingyi Yu. “Saliency Detection on Light Fields”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2014.
72. Peiyi Li, Xiong Yang, Fangfang Xie, Jie Yang, Erkang Cheng, Vasileios Megalooikonomou, Yong Xu, and Haibin Ling. “Trabecular Texture Analysis in Dental CBCT by Multi-ROI Multi-Feature Fusion,” in *Proc. of IEEE Int’l Symposium on Biomedical Imaging (ISBI)*, pp. 846–849, Beijing, China, 2014.

73. Yu Pang and Haibin Ling. “Finding the Best from the Second Bests – Inhibiting Subjective Bias in Evaluation of Visual Tracking Algorithms”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, 2013.
74. Peng Jiang, Haibin Ling, Jingyi Yu, and Jingliang Peng. “Salient Region Detection by UFO: Uniqueness, Focusness and Objectness”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, 2013.
75. Zhan Yu, Xinqing Guo, Haibin Ling, A. Lumsdaine, and Jingyi Yu. “Line-Assisted Light Field Triangulation and Stereo Matching”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, 2013.
76. Xinchu Shi, Haibin Ling, Junliang Xing, and Weiming Hu. “Multi-target Tracking by Rank-1 Tensor Approximation”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp.2387–2394, 2013.
77. Chunfeng Yuan, Xi Li, Weiming Hu, Haibin Ling, and Stephen Maybank. “3D R Transform on Spatio-Temporal Interest Points for Action Recognition”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp.724–730, 2013.
78. Haitao Lang and Haibin Ling. “Classifying Covert Photographs”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp.1178–1185, Rode Island, 2012.
79. Yi Wu, B. Shen, and Haibin Ling. “Online Robust Image Alignment via Iterative Convex Optimization”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp.1808-1814, Rode Island, 2012.
80. Chenglong Bao, Yi Wu, Haibin Ling, and Hui Ji. “Real Time Robust L1 Tracker Using Accelerated Proximal Gradient Approach”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp.1830–1837, Rode Island, 2012.
81. Peng Jiang, Jingliang Peng, Guoquan Zhang, Erkang Cheng, Vasileios Megalooikonomou, and Haibin Ling. “Learning-based Automatic Breast Tumor Detection and Segmentation in Ultrasound Images,” in *Proc. of IEEE Int’l Symposium on Biomedical Imaging (ISBI)*, pp.1587–1590, Barcelona, Spain, 2012.
82. Jin Sun and Haibin Ling. “Scale and Object Aware Image Retargeting for Thumbnail Browsing”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, pp. 1511-1518, 2011.
83. Yi Wu, Haibin Ling, Jingyi Yu, Feng Li, Xue Mei, and Erkang Cheng. “Blurred Target Tracking by Blur-driven Tracker”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, pp. 1100-1107, 2011.
84. Yong Xu, Yuhui Quan, Haibin Ling, and Hui Ji. “Dynamic Texture Classification Using Dynamic Fractal Analysis”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, pp.1219-1226, 2011.
85. Li An, Haibin Ling, Zoran Obradovic, Desmond J. Smith, and Vasileios Megalooikonomou. “Identifying pair-wise gene functional similarity by multiplex gene expression maps and supervised learning”, In *ACM Conf. on Bioinformatics, Computational Biology and Biomedicine (ACM BCB)*, Chicago, 2011. (regular paper)
86. Xue Mei, Haibin Ling, Yi Wu, Erik Blasch, and Li Bai. “Minimum Error Bounded Efficient ℓ_1 Tracker with Occlusion Detection.” in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 1257–1264, Colorado Springs, 2011.

87. Tatyana Nuzhnaya, Erkang Cheng, Haibin Ling, D. Kontos, Predrag Bakic, and Vasileios Megalooikonomou. “Segmentation of Anatomical Branching Structures based on Texture Features and Graph Cut,” in *Proc. of IEEE Int’l Symposium on Biomedical Imaging (ISBI)*, pp. 673–676, Chicago, 2011.
88. Haibin Ling, Xingwei Yang, and Longin Jan Latecki. “Balancing Deformability and Discriminability for Shape Matching”, *European Conf. on Computer Vision (ECCV)*, 411–424, 2010.
89. Nianhua Xie, Haibin Ling, Weiming Hu, and X. Zhang. “Use Bin-Ratio Information for Category and Scene Classification”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp. 2313–2319, San Francisco, 2010.
90. Yong Xu, Xiong Yang, Haibin Ling, and Hui Ji. “A New Texture Descriptor Using Multifractal Analysis in Multi-orientation Wavelet Pyramid”, in *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp. 161–168, San Francisco, 2010.
91. Erkang Cheng, Nianhua Xie, Haibin Ling, Predrag Bakic, Andrew Maidment, and Vasileios Megalooikonomou. “Mammographic Image Classification Using Histogram Intersection”, in *Proc. of the 7th IEEE Int’l Symp. on Biomedical Imaging (ISBI)*, 197–200, Rotterdam, The Netherlands, 2010.
92. Tatyana Nuzhnaya, Michael Barnathan, Haibin Ling, Vasileios Megalooikonomou, Predrag Bakic, and Andrew Maidment. “Probabilistic Branching Node Detection using Adaboost and Hybrid Local Features”, in *Proc. of the 7th IEEE Int’l Symp. on Biomedical Imaging (ISBI)*, 221-224, Rotterdam, The Netherlands, 2010.
93. Xue Mei and Haibin Ling, “Robust Visual Tracking using L1 Minimization”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, pp. 1436-1453, Kyoto, Oct. 2009.
94. Xue Mei, Haibin Ling, and David Jacobs, “Sparse Representation of Cast Shadows via L1-Regularized Least Squares”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, pp. 583–590, Kyoto, Oct. 2009.
95. ChengEn Lu, Longin Jan Latecki, Nagesh Adluru, Xingwei Yang, and Haibin Ling, “Shape Guided Contour Grouping with Particle Filters”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, pp. 2288–2295, Kyoto, Oct. 2009.
96. Wei Zhang, Haibin Ling, Simone Prummer, Shaohua Kevin Zhou, Martin Ostermeier, and Dorin Comaniciu, “Coronary Tree Extraction Using Motion Layer Separation”, In *Proc. of the Int’l Conf. on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, pp. 116–123, 2009.
97. Haibin Ling, Michael Barnathan, Vasileios Megalooikonomou, Predrag Bakic, and Andrew Maidment. “Probabilistic Branching Node Detection using Hybrid Local Features”, in *Proc. of the 6th IEEE Int’l Symp. on Biomedical Imaging (ISBI)*, 233–236, 2009.
98. Yefeng Zheng, Bogdan Georgescu, Haibin Ling, Shaohua Zhou, Michael Suehling, and Dorin Comaniciu. “Constrained Marginal Space Learning for Efficient 3D Anatomical Structure Detection in Medical Images.” In *Proc. of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, pp. 194-201, 2009.
99. Peter Belhumeur, Daozheng Chen, Steven Feiner, David Jacobs, John Kress, Haibin Ling, Ida Lopez, Ravi Ramamoorthi, Sameer Sheorey, Sean White, and Ling Zhang, “Searching the world’s herbaria: a system for visual identification of plant species”, *European Conf. on Computer Vision (ECCV)*, 4:116-129, 2008.

100. Haibin Ling, Shaohua Zhou, Yefeng Zheng, Bogdan Georgescu, Michael Suehling, and Dorin Comaniciu, “Hierarchical, Learning-based Automatic Liver Segmentation”, in *Proc. of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, Anchorage, AK, USA, June 2008.
101. Haibin Ling and Stefano Soatto, “Proximity Distribution Kernels for Geometric Context in Category Recognition”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, Rio de Janeiro, Brazil, Oct. 2007.
102. Haibin Ling, Stefano Soatto, N. Ramanathan, and David Jacobs, “A Study of Face Recognition as People Age”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, Rio de Janeiro, Brazil, Oct. 2007.
103. Haibin Ling and Kazunori Okada, “Diffusion Distance for Histogram Comparison”, in *Proc. of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, I:246-253, New York, NY, USA, June 2006.
104. Haibin Ling and Kazunori Okada. “EMD- L_1 : An Efficient and Robust Algorithm for Comparing Histogram-Based Descriptors”, *European Conf. on Computer Vision (ECCV)*, LNCS 3953, III:330-343, Graz, Austria, May 2006.
105. Haibin Ling and David Jacobs, “Deformation Invariant Image Matching”, in *Proc. of the IEEE Int’l Conf. on Computer Vision (ICCV)*, II:1466-1473, Beijing, China, October 2005.
106. Haibin Ling and David Jacobs, “Using the Inner-Distance for Classification of Articulated Shapes”, in *Proc. of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, II:719-726, San Diego, CA, USA, June 2005.
107. Bongwon Suh, Haibin Ling, Ben Bederson, and David Jacobs, “Automatic Thumbnail Cropping and Its Effectiveness,” *ACM Symposium on User Interface Software and Technology (UIST, Best Student Paper)*, *CHI Letters*, 5(2), pp. 95-104, 2003.

Other Refereed Conference Publication

108. Shuai Di, Honggang Zhang, Xue Mei, Danil Prokhorov, and Haibin Ling. “A Benchmark for Cross-Weather Traffic Scene Understanding.” In *Proc. of Int’l Conf. on Intelligent Transportation Systems (ITSC)*, 2016.
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CONFERENCE ABSTRACT/PRESENTATION

1. Haibin Ling. “Multi-dimensional assignment via rank-1 tensor approximation for multi-target tracking”, *Workshop on Recent Trends in Computer Vision*, College Park, MD, 2014.
2. Liang Du and Haibin Ling. “Dynamic Scene Classification Using Spatially Redundant Instances”, *the 3rd GNY Area Multimedia and Vision Meeting*, New York, NY, 2013.
3. Haibin Ling, X. Yang, Fangfang Xie, Jie Yang, Vasileios Megalooikonomou, “Trabecular Texture Analysis in Dental Cone Beam CT”, *Analysis of Tomographic Images for Clinics: Challenges and Recent Advances, SIAM Conference on Imaging Sciences*, Philadelphia, 2012.

4. M. Zhang and Haibin Ling, “Distinguish financial Statement Frauds and Errors Using Machine Learning Techniques,” *the Academy of Business Research Conference*. Atlantic City, NJ, 2012.
5. Liang Du and Haibin Ling. “Face De-identification for Privacy Protection Using Consensus of Data Utility”, *the Workshop of Northeast Computer Vision*, Hobokon, NJ, 2012.
6. Tatyana Nuzhnaya, Vasileios Megalooikonomou, Haibin Ling, M. Kohn, R. Steiner, “Classification and quantification of emphysema texture patterns in CT lung imaging”, *the Int’l Functional Lung Imaging Workshop*, Philadelphia, 2011.
7. H. Chen, M. Zhang, and Haibin Ling, “How Does the Distinguishment between Errors and Irregularities Impact Audit Risk? Evidence from Restatement,” *Global Business and Social Science Research Conference*, Beijing, China, 2011
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PATENTS

- Yefeng Zheng, Bogdan Georgescu, Haibin Ling, Michael Scheuering, and Dorin Comaniciu, “Method and System for Detecting 3D Anatomical Structures Using Constrained Marginal Space Learning”, US Patent No. 8,116,548 B2.
- Haibin Ling and Kazunori Okada, “Diffusion Distance for Histogram Comparison”, US Patent No. 7,715,623 B2.
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MEDIA COVERAGE

“Grad programs combine CS with other disciplines,” Sue Marquette Poremba, *Diversity & Careers in Engineering & Information Technology*, Issue: Summer/Fall 2010.

CONTRACTS AND GRANTS

- Chiu C. Tan (PI), Haibin Ling (co-PI), and Jie Wu (co-PI). (Aug. 15, 2016 - Jul. 31, 2019) “Evidence of Presence for Intelligent Vehicles using Environment-Based Security”, *National Science Foundation*, \$416,938.
- Haibin Ling. (Jan. 31, 2015 - Jan. 26, 2017) “Evaluation of High Performance Computing Enabled Multiple-Target Tracking Based on Massive Parallelism for Urban Surveillance Areas,” *Air Force Research Laboratory*, STTR Phase II subcontract, \$187,500.
- Haibin Ling (PI), Vasileios Megalooikonomou (co-PI), Jie Yang (co-PI). (Aug. 2014 - Jul. 2017) “Cost Efficient Osteoporosis Analysis using Dental Data,” *National Science Foundation*, \$595,797.
- Haibin Ling. (Feb. 2014 - Jan. 2019) “CAREER: High-order Tensor Analysis for Group-wise Correspondence: Theory, Algorithms, and Applications,” *National Science Foundation*, \$479,691.

Expired

- Jie Wu (PI), Eugene Kwatny (co-PI), Haibin Ling (co-PI), and Chiu C. Tan (co-PI). (Sep. 2014 - Aug. 2016) “Mobility-Enhanced Public Safety Surveillance System using 3D Cameras and High Speed Broadband Networks”, *National Science Foundation*, \$199,995.
- Haibin Ling. (Oct. 25, 2013 - Dec. 31, 2014) “HPC-MTT: High Performance Computing Enabled Multiple Target Tracking for Urban Surveillance Areas,” *Air Force Research Laboratory*, STTR Phase I subcontract, \$50K, FA8750-14-C-0043.
- Haibin Ling. (Jun. 21, 2013 - Jun. 19, 2015) “Video to Text (V2T) for Wide Area Motion Imagery,” *Air Force Research Laboratory*, subcontract, \$50K.
- Haibin Ling (PI), Jingyi Yu (PI). (Sep. 2012 - Aug. 2016) “Contour-Assisted Visual Inference: Systems, Algorithms, and Applications,” *National Science Foundation*, \$457,673.
- Haibin Ling. (Aug. 2012 - Aug. 2013) “Autonomous ISR Testbed with Multiple Robots,” *Air Force Research Laboratory*, subcontract, \$70K.
- Haibin Ling. (Sep. 2010 - Aug. 2012) “A New Framework for Balancing Deformability and Discriminability in Computer Vision,” *National Science Foundation*, \$68,863.
- Haibin Ling. (Sep. 2011 - Nov. 2012) “SOA based ISR Testbed Development,” *Air Force Research Laboratory*, \$74,950.
- Vasileios Megalooikonomou (PI), Haibin Ling (co-PI), Predrag Bakic (co-PI). (Sep. 2009 - Aug. 2012) “Modeling, Detection, and Analysis of Branching Structures in Medical Imaging,” *National Science Foundation*, \$498,633.

TEACHING

- *Visual Computing*, South China University of Technology, Spring 2015.
- CIS 8543/5543, *Computer Vision*, Temple University, Department of Computer and Information Science, Spring 2012, Fall 2013, Spring 2015.
- CIS 2033: *Computational Probability and Statistics*, Temple University, Department of Computer and Information Science, Fall 2014.
- CIS 2166: *Mathematical Concepts in Computing II*, Temple University, Department of Computer and Information Science, Spring 2014.
- CIS 3223/5501, *Data Structures and Algorithms*, Temple University, Department of Computer and Information Science, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Spring 2013.
- CIS 8590.002, *Visual Information Analysis*, Temple University, Department of Computer and Information Science, Spring 2010, Spring 2011.
- CIS 8590.002, *Statistical Foundations of Data Analysis*, Temple University, Department of Computer and Information Science, Spring 2009.

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- Xin Liang (2015), Professor, Dalian Medical University, China
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- Haitao Lang (2011), Associate Professor, Beijing University of Chemical Technology, China

Postdoc

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Doctoral Student Supervision

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- Lin Chen (co-advising with Yaowu Chen)
- Shuai Di (co-advising with Honggang Zhang)
- Semir Elezovikj
- Heng Fan
- Bingyao Huang
- Xinyi Li
- Yu Pang
- Yuxi Wang (co-advising with Yue Liu)
- Fan Yang
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Graduated

- Pengpeng Liang, 2016, last known employment: Amazon
- Peiyi Li, 2016, last known employment: HiScene
- Houwen Peng, 2016 (co-advised with Weiming Hu), last known employment: Qualcomm
- Liang Du, 2015, last known employment: Microsoft
- Ying Huang (visiting student in 2014)
- Jin Gao, 2015 (visiting student in 2014), last known employment: Assistant Professor, Institute of Automation, Chinese Academy of Sciences
- Tatyana Nuzhnaya (co-advised with Vasileios Megalooikonomou), 2015, last known employment: J.P. Morgan
- Haoran Wang, 2015 (visiting student in 2013), last known employment: Assistant Professor, Northeastern University, China
- Erkang Cheng, 2014, last known employment: Broncus Medical, Inc.
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- Nianhua Xie, 2011 (co-advised with Weiming Hu), last known employment: Sogou

Master Student Supervision

- Ge Deng
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Graduated

- Xiuwen Yu, 2016
- Ngoc-Tung Nguyen, 2016
- Yanling Chen, 2015
- Tuan Anh Vo, 2015
- Yiyi Zhu, 2015
- Gaoxiang Liu (Medical school), 2015
- Joseph Catrambone, 2014
- Semir Elezovikj, 2014, now PhD student in my group
- Gregory Teodoro, 2014 (co-advised with Justin Y. Shi)
- Liya Ma, 2013, last known employment: Broncus Medical, Inc.
- Congyi Zhou, 2013, last known employment: Cerner Corporation
- Gregory Johnson, 2012
- Jin Sun, 2012, now PhD student at Univ. of Maryland College Park
- Xiong Yang, 2012 (co-advised with Yong Xu), last known employment: Great Wall Fund Management
- Jingting Zeng, 2011, last known employment: Sigma Designs
- Xin Li, 2009, last known employment: eBay

Undergraduate Student Supervision

- Jiyeon Song (2015–2016)
- Ismail Amzovski (2014–2015)
- Zilong Zou (2014), now graduate student at Ohio State University
- Ferria Amzovski (2013–2014)
- Robert Laderman (2013)
- Haotian Xu (2011–2012), now PhD student at Wayne State University
- Peiyi Li (2010–2011), now PhD student in my group
- Angelo Saxon Jr. (2011)
- Shawn McLaughlin (2010–2011)
- Teresa Rothaar (2010)

Ph.D./MS Committee Member

- Nan Li
- Shuang Liang
- Pete Mollica (ECE Department), MS thesis proposal

Graduated

- Nianyi Li (University of Delaware), defended 2016
- Zhuo Deng, defended 2016
- Chao Ma (Shanghai Jiaotong University), defended 2016
- Bingyao Huang (Rowan University), MS defended 2015
- Xueli Huang, defended 2015
- Pouya Ostovari, Prelim I and II
- Le Shu, defended 2015
- Ralph Oyini Mbona (ECE Department), defended 2014
- Geoff Oxholm (Drexel University), defended 2014
- Tianyang Ma, defended 2013, last known employment: Amazon
- Shuang Lu (ECE Department), Prelim I
- Li An, defended 2012, last known employment: Allscripts
- Xingwei Yang, defended 2011, last known employment: GE Global Research
- Suzan Koknar-Tezel, defended 2010, last known employment: San Joseph University
- Xue Mei (University of Maryland College Park), defended 2009, last known employment: Intel

High School Student Supervision

- Yiran Cai (Central Bucks High School East, Pennsylvania), 2015-
- Jonathan Xu (Central Bucks High School East, Pennsylvania), 2015-2016, enrolled in Yale University

TALKS

- **Domestic:** University of Delaware (2015, 2009), National Institute of Standards and Technology (2015), National Institutes of Health (2014), University of Maryland Baltimore County (2013), University of Maryland College Park (2013), George Mason University (2013), Stevens Institute of Technology (2013,2008,2007), City University of New York (2011), Drexel University (2009), Lehigh University (2009), University at Albany, SUNY (2009), University of Pennsylvania (2008), California Institute of Technology (2006), University of California Los Angeles (2006), Johns Hopkins University (2006)
- **International:** Nanjing University (2017), Southeast University (2017), Huaqiao University (2017), Xiamen University (2017), Beijing Jiaotong University (2017, 2015), Peking University (2016, 2014, 2011, 2010), Harbin Institute of Technology (2016), Shanghai Jiaotong University (2016), Tongji University (2016), Beijing Post and Telecommunications University (2016), Suzhou University (2016), Tsinghua University (2015), Northeastern University (2015), Dalian Medical University (2015), Dalian University of Technology (2015), Fudan University (2015), Jiangsu University (2015), Zhejiang University (2016, 2015), Shanghai Technology University (2015), Shanghai University (2015), Institute of Computing Technology, Chinese Academy of Sciences (2015), Institute of Information Engineering, Chinese Academy of Sciences (2015), South China University of Technology (2015, 2014, 2009), Beihang University (2016, 2014), Beijing Univ. of Chemical Technology (2014), Shandong University (2010),

Huazhong University of Science & Technology (2016, 2015, 2009), Institute of Automation, Chinese Academy of Sciences (2014,2005), DSO National Laboratories, Singapore (2011), Nanyang Technological University, Singapore (2011), National University of Singapore (2011)

- **Industrial Lab:** Jingdong Research Lab (2016), Microsoft Research Asia (2015), Samsung Lab Beijing (2015), Meitu Inc. (2015), Yahoo Lab New York (2014), Siemens Corporate Research (2007), GE Global Research (2007)

PROFESSIONAL ACTIVITIES

Editorial Services

- Associate Editor, IEEE Trans. on Pattern Analysis and Machine Intelligence, 2016 –
- Editorial Board, Pattern Recognition, 2015 –
- Associate Editor, BMC Medical Informatics and Decision Making, 2016 – 2017
- Guest Co-Editor, Pattern Recognition, Special Issue on Discriminative Feature Learning from Big Data for Visual Recognition, 2014

Grant Proposal Review

- National Science Foundation (NSF), 2008(panel), 2009, 2011, 2013(panel), 2014(panel), 2015 (panel), 2017
- Israel Science Foundation (ISF), 2011, 2015, 2016

Conference Organizing Committee

- Area Chair, IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2014, 2016
- Program Co-Chair, the 13th IEEE WS on Beyond the Visible Spectrum (PBVS), in conjunction with CVPR 2017
- Poster Chair, the 3rd GNY Area Multimedia and Vision Meeting (GNY-MV), 2013
- Symposium Chair, Int'l Conf. on Computing, Networking and Communications (ICNC), 2013

Conference Program Committee or Reviewers

- IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2005–2013, 2015, 2017
- IEEE Int'l Conf. on Computer Vision (ICCV), 2007–2017 (biannual)
- Int'l Conf. on Document Analysis and Recognition (ICDAR), 2017
- IEEE Int'l Joint Conf. on Biometrics (IJCB), 2017
- Neural Information Processing Systems Conference (NIPS), 2015
- Int'l Conf. on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2012–2013, 2015, 2016
- AAAI Conference on Artificial Intelligence (AAAI), 2015
- European Conf. on Computer Vision (ECCV), 2010–2016 (biannual)
- IEEE Int'l Symposium on Biomedical Imaging (ISBI), 2014–2017
- Asian Conf. on Computer Vision (ACCV), 2010–2014 (biannual)
- Int'l Conf. on Pattern Recognition (ICPR), 2010–2016 (biannual)
- Int'l Conf. on Acoustics, Speech and Signal Processing (ICASSP), 2014, 2015

- IEEE Int'l Conf. on Multimedia & Expo (ICME), 2009–2015
- ARES conference Special Session on Privacy Aware Machine Learning, 2016
- IEEE Int'l Conf. on Automatic Face and Gesture Recognition (FG), 2013, 2015
- IEEE Workshop on Perception Beyond the Visible Spectrum – In conjunction with CVPR 2016
- ACCV Workshop on My Car Has Eyes: Intelligent Vehicle With Vision Technology, 2014
- SPIE Conf. on Geospatial InfoFusion and Video Analytics IV, 2014
- Int'l Conf. on Internet Multimedia Computing and Service, 2014
- Int'l Conf. on Intelligence Science and Big Data Engineering (IScIDE), 2013
- Int'l Workshop on Cloud Enhanced Information Fusion (CloudFusion), 2013
- MICCAI Workshop on Sparsity Techniques in Medical Imaging, 2012
- Int'l Conf. on Computer Vision in Remote Sensing (CVRS), 2012
- ACCV Workshop on Detection and Tracking in Challenging Environments (DTCE), 2012
- High-Performance Medical Image Computing for Image-Assisted Clinical Intervention and Decision-Making (HP-MICCAI), 2010
- IEEE Workshop on Multimedia Signal Processing (MMSP), 2012
- Int'l Conf. on CAD/Graphics, 2011

Book Proposal Review

- Springer, 2012, 2017

Journal Review ACM Computing Surveys (**CSUR**) ◊ ACM Trans. on Intelligent Systems and Technology (**T-IST**) ◊ Aerospace Science & Technology ◊ Applied Optics ◊ Asia-Pacific J. of Operational Research ◊ Computer & Graphics ◊ Computer Vision and Image Understanding (**CVIU**) ◊ Computer-Aided Design (**CAD**) ◊ Digital Signal Processing ◊ IEEE Aerospace and Electronic Systems Magazine ◊ IEEE MultiMedia ◊ IEEE Signal Processing Letters (**SPL**) ◊ IEEE Trans. on Circuits and Systems for Video Technology (**T-CSVT**) ◊ IEEE Trans. on Human-Machine Systems ◊ IEEE Trans. on Image Processing (**T-IP**) ◊ IEEE Trans. on Information Forensics & Security (**T-IFS**) ◊ IEEE Trans. on Information Technology in BioMedicine ◊ IEEE Trans. on Medical Imaging (**T-MI**) ◊ IEEE Trans. on Multimedia (**T-MM**) ◊ IEEE Trans. on Neural Networks and Learning Systems (**T-NNLS**) ◊ IEEE Trans. on Pattern Analysis and Machine Intelligence (**T-PAMI**) ◊ IEEE Trans. on Systems, Man, and Cybernetics–Part B: Cybernetics (**T-SMC**) ◊ IEEE Trans. on Systems, Man, and Cybernetics: Systems ◊ IEEE Trans. on Visualization and Computer Graphics (**T-VCG**) ◊ IET Computer Vision ◊ IET Image Processing ◊ Image and Vision Computing (**IMAVIS**) ◊ Information Sciences ◊ Int'l J. of Advanced Robotic Systems ◊ Int'l J. of Computer Vision (**IJCV**) ◊ Int'l J. of Parallel, Emergent and Distributed Systems ◊ J. of Artificial General Intelligence ◊ J. of Biomedical Optics ◊ J. of Computer Science and Technology ◊ J. of Electronic Imaging ◊ J. of Mathematical Imaging and Vision (**JMIV**) ◊ J. of Medical Imaging ◊ J. of Signal Processing Systems ◊ J. of Visual Communication and Image Representation (**JVCI**) ◊ J. of Zhejiang University Science C ◊ Machine Vision and Applications (**MVA**) ◊ Multimedia Systems ◊ Neural Computing and Applications ◊ Neurocomputing ◊ Optical Engineering ◊ Pattern Recognition (**PR**) ◊ Pattern Recognition Letters (**PRL**) ◊ PLOS ONE ◊ Signal, Image and Video Processing ◊ Signal Processing ◊ Signal Processing: Image Communication ◊ Soft Computing ◊ Taxon ◊ Visual Computer