Curriculum Vitae

Baoxin Li

School of Computing, Informatics, and Decision Systems Engineering
Arizona State University
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Current Position

- Professor & Chair, Computer Science & Engineering Program, Arizona State University.
  - Graduate Faculty with right to chair PhD: Electrical Engineering, Computer Engineering

Other Positions & Professional Experiences

- Associate Professor, Computer Science & Engineering, Arizona State University, 2010-15.
- Assistant Professor, Computer Science & Engineering, Arizona State University, 2004-10.
- Senior Researcher, SHARP Laboratories of America, 2000-2004.
  - Project & Technical Lead: HiIMPACT® Sports & Setting-Free Projector projects
- Adjunct Professor, Electrical & Computer Engineering, Portland State University, 2003-04.
- Editorial Board Member & Area Editor: *Signal Processing: Image Communications*, since 2006.
- Editorial Board Member & Area Editor: *Journal of Multimedia*, since 2008.

Research Interests

My general research interests are on ***visual computing*** and ***machine learning***, especially their application in the context of ***human-centered computing***. I actively publish on computer vision & pattern recognition, multimedia, image/video processing, assistive technologies for the visually impaired, human-computer interaction, statistical methods in visual computing.

Education

University of Maryland, College Park	**ECE/Computer Vision**	**Ph.D.**	**2000**
University of Science and Technology of China	EE & Information Science	M.S.	1995
University of Science and Technology of China	EE & Information Science	B.S.	1992

Awards, Recognition, and Distinctions

- ASU Fulton Exemplar Faculty (2017)
- NSF CAREER Award (2008-2009)
- SHARP Laboratories of America President's Award (2004)
- SHARP Laboratories of America Inventor of the Year Award (2002)
- SHARP Laboratories of America President's Award (2001)
- Senior Member of IEEE
- Eighteen (17) issued US Patents

- International, national, and local media coverage of my research:
    - My Tactile Face work was reported on MSNBC, Discovery News, ABC News, Gizmodo India, State Press (AZ), KSAT News (TV news of San Antonio, TX).
    - My HiMPACT work was reported on *New York Times* and *EE Times.*

Teaching at Arizona State University

CSE 230 Computer Organization & Assembly Language (required core course for both majors in the CSE program):

Fall 2006, Fall 2010.

CSE 301 Computing Ethics (required core course for both majors in the CSE program):

Spring, 2011, Spring 2013.

CSE 310 Data Structures & Algorithms (required core course for both majors in the CSE program):

Spring 2009, Spring 2014.

CSE 408/598 Multimedia Information Systems: Fall 2004, Spring 2006, Fall 2007, Fall 2008.

CSE 509 Digital Video Processing: Spring 2005, Spring 2007, Spring 2008, Fall 2008, Fall 2015.

CSE 569 Fundamentals of Statistical Learning and Pattern Recognition (with its early version taught as CSE 591 Statistical Pattern Recognition): Fall 2005, Fall 2007, Fall 2010, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016.

CSE 591 Introduction to Deep Learning in Visual Computing: Spring 2017.

Teaching at Portland State University

ECE 565/665 Signal and Noise: Fall 2003.

ECE 566/666 Digital Signal Processing: Spring 2004

Professional Services

- **Special Session Co-chair** on Semantic Sports Video Analysis and Processing, IEEE International Conference on Image Processing 2003.
- **Technical Program Chair**, 2nd International Workshop on Video Processing and Quality Metrics, 2006.

- **Technical Program Co-chair,** The Second International Workshop on Multimedia Systems and Networking (WMSN'06) (in conjunction with IPCCC 2006).
- **Organizing Committee and Finance Chair,** International Conference on Image and Video Retrieval, 2006.
- **Technical Program Chair**, 3rd International Workshop on Video Processing and Quality Metrics, 2007.
- **Organizing Committee and Finance Chair**, International Conference on Image Processing, 2008.
- **Organizing Committee & Publicity Chair,** IEEE 2009 International Workshop on Quality of Multimedia & Experiences.
- **Organizing Committee & Technical Program Co-Chair, 2010** International Symposium on Haptics Audio-Visual Environments and Games (HAVE 2010).
- **Organizing Committee & Local Arrangement Co-Chair, ACM Multimedia 2011.**
- **Area Chair, IEEE CVPR 2012**.
- **Area Chair, International Symposium on Visual Computing, 2013**.
- **Organizing Committee & Publication Co-Chair, 2016** IEEE International Conference on Image Processing.
- **Technical Program Chair**, 9th International Workshop on Video Processing and Quality Metrics, 2015.
- Technical Program Committee Member / Reviewer:
  - International Conference on Computer Vision Theory and Applications 2006, 2007, 2009, 2012, 2013, 2014.
  - International Conference on Multimedia & Expo, 2007, 2008, 2012, 2013, 2014
  - ICC 2009 Ad Hoc and Sensor Networking Symposium.
  - IEEE International Conference on Computer Vision and Patter Recognition 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014.
  - IEEE International Conference on Computer Vision 2007, 2009, 2013
  - IEEE International Conference on Image Processing 2007, 2009, 2010, 2012
  - ACM Multimedia 2008, 2012, 2014.
  - 3DTV-CON 2009.
  - IEEE/SPIE International Conference on Visual Communications & Image Processing, 2010
  - ACM International Conference on Content-based Image and Video Retrieval, 2010
- **Session Chair**:
  - IEEE International Conferences on Acoustics, Speech, and Signal Processing, 2007, 2008, 2009.
  - IEEE International Conferences on Image Processing, 2006, 2008, 2016.
- **Senior Program Committee Member** for Computer Vision, IJCAI 2016.
- **Keynote Speaker** (to occur), Medical Image Perception Conference, July, 2017, Houston.

- Reviewer for the following journals:
  - IEEE Transactions on Pattern Analysis and Machine Intelligence
  - IEEE Transactions on Image Processing
  - IEEE Transactions on Multimedia
  - IEEE Transactions on Circuit and Systems for Video Technologies
  - IEEE Transactions on Neural Networks
  - ACM Transactions on Multimedia Computing, Communications, and Applications
  - Pattern Recognition Letter
  - Machine Vision and Applications
  - Elsevier Digital Signal Processing
  - SPIE Electronic Imaging
  - Neurocomputing
- NSF Panelist, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
- **Area Editor / Editorial Board**:
  - *Signal Processing: Image Communications*
  - *Journal of Multimedia*

University Services

- Graduate Admission Committee for Department of Computer Science & Engineering and School of Computing & Informatics: 2004 – 2009 (each and every year).
- **Graduate Admission Committee Chair** for Department of Computer Science & Engineering, 2010-2011.
- CSE Faculty Recruiting Committee: Subcommittee for Ubiquitous Computing: 2005.
- Served as judges for REAS 2005 Symposium and CSE Capstone Design Poster Session.
- CSE Graduate Program Committee: 2007-2008.
- SCI Faculty Recruiting Committer: 2008-2009.
- Engineering School Materials Engineering Minor Committee: 2009.
- CSE Undergraduate Program Committee: 2010-2011.
- Obama Scholar Mentor: 2010-2011.
- Course Coordinator for CSE 301.
- **CIDSE Personal Committee**, 2012-2014.
- CIDSE Faculty Search Sub-committee on Robotics, 2012-2013.
- CIDSE **Faculty Search Committee Chair** on Human-centered Computing, 2013-2014
- CIDSE Faculty Search Committee Chair on Imaging/Graphics/Visualization, 2015-16.
- **Computer Science Undergraduate Program Committee Chair**, 2013-2014.

- **Chair of the Computer Science & Engineering program,** since 2016.

Invited Talks/Presentations

I have been invited to present my work by other universities, industrial labs, and government labs. Following is a selected list of such talks.

"*Handling uncertainties in visual representation and processing*", at Department of Ophthalmology and Visual Sciences, **University of Texas Medical Branch**, January, 2005.

"*Image Rectification for Stereoscopic Visualization with a SHARP 3D LCD*", at **SHARP Labs of America**, March, 2006.

"*3D Human Tracking via Blackwellized Particle Filters*", at **University of Science & Technology of China**.

"*Image Rectification for Stereoscopic Visualization with a SHARP 3D LCD*", at **SHARP Labs of America**, March, 2006.

"*3D Modeling from A Single Image, Image Categorization through Learning, and Other Research Activities*", at **SHARP Labs of America**, March, 2007.

"*Bayesian Tactile Face"*, at **SHARP Labs of America,** June, 2008.

"*Free Viewpoint Video and Single Image Based 3D Modeling*", at **Fujitu FXPAL Lab**, August, 2008.

"*Exploiting Motion Correlations 3D Articulated Human Motion Tracking*", at **Honda Research Institute**, August, 2008.

"*A Compressive Sensing Approach for Representing Ensembles of Correlated Images*", at **US Army Research Laboratories**, July, 2009.

"*Understanding Compressive Sensing and Sparse Representation Based Super Resolution*", at SHARP Labs of America, May, 2010.

"*Representing Correlated Face Images via Sparse Coding & Matrix Completion"*, at **University of Science & Technology of China**.

"*Human and Machine Detection of Tampered Images*", at **Huawei Research**, New Jersey, September, May, 2012.

"*Human Motion Understanding: A video classification algorithm with application to evaluating expertise in surgical training*", at **Qualcomm**, July, 2012.

"*Understanding Motion Expertise in Simulation-based Surgical Training*", at **Tsinghua University**, September, 2013.

"*Relative Learning for Motion Skill Analysis*", at **US Army Research Laboratories,** October, 2014.

"*Towards Proactive Traffic Management – with mobile visual computing*", at *IEEE Vehicular Technology, Communications and Signal Processing Societies, San Diego*, October, 2016.

Mentoring and Student Supervision

Visiting Scholars

Yinghua Fu (Lecturer of Shanghai University of Science & Technology), Sept. 2007 ~ April, 2008.

Xiaoyan Qian (Associate Professor of Nanjing University of Aeronautics and Astronautics), June 2013 ~ May 2014.

Kan Chang (Associate Professor of Guangxi University), February 2014 ~ February 2015.

Post-doc Supervised & Supported at ASU

Dr. Peng Zhang, February 2012 ~ December 2013.

Dr. Zhigang Tu, December 2015 ~ November 2016.

Graduate Students Supervised at ASU & Their Initial Placement (if graduated)

PhD Students

Graduated: 8 Ph.D. students.

Xinyu Xu (PhD, 2008, **Sharp Labs of America**)

Jin Zhou (PhD, 2009, **Signal Processing Inc.**)

Wenfeng Li (PhD, 2010, **Google**)

Zheshen Wang (PhD, 2011, **Amazon**)

Gazi Islam* (PhD, 2013, **Intel**)

* Co-chaired with Prof. J. Liang from Dept. of BMI; I was the primary advisor as the student was an RA on my NSF grant (BMI does not allow external faculty to serve as the sole chair of their students; the student was with the BMI Department).

Qiang Zhang (PhD, 2014, **Samsung Research**)

Lin Chen (PhD, 2016, **SnapChat**).

Devi Archana Paladugu, 2016

Qiongjie Tian (PhD, 2017, **Qualcomm**)

In progress: 10 Ph.D. students

Ragav Venkatesan (PhD student; Graduation expected 2017)

Yilan Wang (PhD student; Graduation expected 2017)

Parag Chandakkar (PhD student; Graduation expected 2017)

Jun Cao (PhD Student)

Kevin Puk Ding (PhD Student)

Yuzhen Ding (PhD Student)

Vijetha Guttupalli (PhD Stduent)

Xu Zhou (PhD Student)

Yikang Li (PhD student)

Masters Students

Graduated: 14 MS (with thesis) and 2 MCS students.

Yue Yang (MS, May 2006, **Intel**)
Jayanth Madapura (MS, May 2007, **Microchip**)
Viswesh Parameswaran (MS, May 2008, **Qualcomm**)
Shankara Subramanya (MS, August 2008, **Amazon**; co-advisor Huan Liu)
Avin Kannur (MS, May 2009, **Qualcomm**)
Rahul Gowda (MS, August 2009, **NVIDIA**)

Pradeep Nagesh (MS, December 2009, **Samsung R&D Center**, Irvine)

Xiaolong Zhang (MCS, December 2010, **Microsoft**)
Naveen Kulkarni (MS, August 2011, **Research In Motion**)

Nan Li (MCS, December 2011, **Microsoft**)
Akshay Vankipuram (MS, August 2012, **MathWorks**)
Hima Bindu Maguluri (MS, August, 2013, **Meta**)

Collin Walker (MS, 2014)

Aaron Gubrud (MS, 2015, **Intel**)

Vijetha Guttupalli (MS, 2016)

Steve Sheng-shung Hu (MS, 2016, **Tesla**)

In progress:

Jashmi Lagisetty

Undergraduate Students Supervised at ASU (most supported via NSF REU grants)

Mike McGuire (2005-2006)

Jeremy Stayton (2009 ~ 2010)

Jesus Yuriar (2010 ~ 2011)

Katherine McMichael (1/2011 ~ 5/2011)

Yajun Gao (11/2010 ~ 6/2011)

Samantha Axtell (1/2011 ~ 8/2011)

Filip Jaros (2011 ~ 2012)

Aaron Ogata (2012 ~ 2013)

Peter Huffer (2014 ~ 15)

Vina Martin (2014 ~ 15)

Christina Wilmot (2015)

Mellissa Ip (2016 ~17)

Publications

(Names in boldface: mentees for whom I am the sole or primary advisor.)

Book Chapters

[1] **Peng Zhang**, Xufei Wang, and Baoxin Li, "Evaluating Important Factors and Effective Models for Twitter Trend Prediction", in *Online Social Media Analysis and Visualization*, Jalal Kawash (Ed.), in press with Springer, 2014.

[2] **Gazi Islam**, Kanav Kahol, Baoxin Li, "Development of a Computer Vision Application for Surgical Skill Training and Assessment", in *Bio-Informatic Systems, Processing and Applications*, J. I. Agbinya, E. Custovic, and J. Whittington (Ed.), River Publisher, 2013, ISBN: 978-8793102187.

[3] **Xinyu Xu** and Baoxin Li, "Chapter 8. Human Action Recognition in Video", in Intelligent Video Surveillance: Systems and Technology, Ed. Y. Ma and G. Qian, Auerbach Publication, ISBN: 978-1-4398-1328-7.

[4] Baoxin Li and I.M. Sezan, "Interactive Video via Automatic Event Detection", *Interactive Video*, Hammound, Riad, (Ed.), Springer, ISBN: 978-3-540-33214-5, 2006, pp. 133-156.

Books

Q. Zhang and B. Li, "Dictionary Learning in Visual Computing", Book proposal reviewed and approved, book contract signed with *Morgan & Claypool Publishers*, 2015.

R. Venkatesan and B. Li, "Deep Learning in Visual Computing: A Concise Guide", *CRC Press*, 2017 (to appear; book completed, under production with the publisher.)

Refereed Journal Articles

(Names in boldface: mentees for whom I am the sole or primary advisor.)

[1] **Kan Chang, Pak Lun Kevin Ding**, Baoxin Li, "Compressive Sensing Reconstruction of Correlated Images Using Joint Regularization", *IEEE Signal Processing Letter* 23(4): 449-453 (2016).

[2] **Lin Chen, Peng Zhang**, Baoxin Li, "User-adaptive image retrieval via fusing pointwise and pairwise labels", *Intl. Jour. Of Multimedia Information Retrieval*, 5(1): 19-33 (2016).

[3] **Gazi Islam**, Kanav Kahol, Baoxin Li, Marshall L. Smith, Vimla L. Patel, "Affordable, web-based surgical skill training and evaluation tool", *Journal of Biomedical Informatics*, 59: 102-114 (2016).

[4] **D. Paladugu, Q. Tian, H. Maguluri** and B. Li, "Towards building an automated system for describing indoor floor maps for individuals with visual impairment", *Cyber-Physical Systems*, Volume 1:2-4, 132-1591, 2016.

[5] **K. Chang** and B. Li, "Joint modeling and reconstruction of a compressively-sensed set of correlated images", *Journal of Visual Communication and Image Representation*, Vol. 33, pp. 286-300. November, 2015.

[6] **Ragav Venkatesan**, Christine M. Zwart, David H. Frakes, Baoxin Li, "Spatiotemporal video deinterlacing using control grid interpolation", *J. Electronic Imaging* 24(2): 023022 (2015)

[7] **Kan Chang, Pak Lun Kevin Ding**, Baoxin Li, "Color image demosaicking using inter-channel correlation and nonlocal self-similarity", *Signal Processing: Image Communications*, 39: 264-279 (2015)

[8] **Qiang Zhang**, Baoxin Li, "Relative Hidden Markov Models for Video-Based Evaluation of Motion Skills in Surgical Training", *IEEE Trans. Pattern Anal. Mach. Intell.* (PAMI)), 37(6): 1206-1218 (2015)

[9] **Q. Zhang**, **L. Chen**, B. Li, "Max-margin Multi-attribute Learning with Low-rank Constraint", *IEEE Transactions on Image Processing*, Vol. 23, No. 7, pp. 2866-76, 2014.

[10] B. Li and H.K. Li, "Automated Analysis of Diabetic Retinopathy Images: Principles, Recent Developments, and Emerging Trends", *Current Diabetes Reports,* 13(4):453-9. August, 2013 doi: 10.1007/s11892-013-0393-9.

[11] **N. Kulkarni**, **P. Nagesh**, **R. Gowda**, B. Li, "Understanding Compressive Sensing and Sparse Representation-Based Super-Resolution", *IEEE Transactions on Circuit and Systems for Video Technologies*, Vol. 22, No. 5, pp.778-789, 2012.

[12] **Z. Wang**, **N. Li**, B. Li, "Fast and independent access to map directions for people who are blind", *Interacting with Computers,* Vol. 24, pp. 91–106, 2012.

[13] B. Peng, G. Qian, Y. Ma, B. Li, "Multifactor Feature Extraction for Human Movement Recognition", *Computer Vision and Image Understanding*, 2011.

[14] Nguyen VX, Nguyen CC, Li B, Das A., "Digital image analysis is a useful adjunct to endoscopic ultrasonographic diagnosis of subepithelial lesions of the gastrointestinal tract", J Ultrasound Med. 29(9):1345-51, Sept. 2010.

[15] **Avin Kannur** and Baoxin Li, "On Implementing Motion-based Region of Interest Dectection on Multi-core CELL", *Computer Vision and Image Understanding*, Vol. 114, pp. 1139-1151, 2010.

[16] **Jin Zhou** and Baoxin Li, "Rapid Cones and Cylinders Modeling from a Single Calibrated Image Using Minimal 2D Control Points", *Machine Vision and Applications*, January, 2010.

[17] **R. Gowda, S. Mehta, Y. Yang**, Baoxin Li, "Adaptive Non-linear Image Enhancement of Gaussian Degraded Images", *International Journal of Image and Graphics*, Vol. 10(3), pp. 365-393, 2010.

[18] **Zheshen Wang** and Baoxin Li, "A Bayesian Approach to Automated Creation of Tactile Facial Images", *IEEE Transactions on Multimedia*, Vol. 12(4), pp. 233-246, 2010.

[19] **Wenfeng Li**, **Jin Zhou**, Baoxin Li, M. Ibrahim Sezan, "Virtual View Specification and Synthesis for Free-viewpoint Television", *IEEE Transactions on Circuit and Systems for Video Technology*, Vol, 19, No. 4, pp.533-546, 2009.

[20] **Vishwesh Parameswaran**, **Avin Kannur**, and Baoxin Li, "Adapting quantization offset in multiple description coding for error resilient video transmission", *Journal of Visual Communication and Image Representation*, in press; doi:10.1016/j.jvcir.2009.07.003.

[21] **Xinyu Xu** and Baoxin Li, "Exploit Motion Correlations for 3D Articulated Human Tracking", *IEEE Transactions on Image Processing*, Vol. 16, No. 3, pp. 838-849, 2009.

[22] **Jin Zhou** and Baoxin Li, "Image Rectification for Stereoscopic Visualization", Journal of Optical Society of America, (JOSA-A), Vol. 25, No. 11, pp. 2721-2733, 2008.

[23] **S. Subramanya**, **Z. Wang**, B. Li, and H. Liu, "Completing Missing Views for Multiple Sources of Web Media", International Journal of Data Mining, Modeling and Management, Vol. 1. pp. 23-43, 2008.

[24] Ananya Das, Cuong C. Nguyen, Feng Li, Baoxin Li, "Digital image analysis of EUS images accurately differentiates pancreatic cancer from chronic pancreatitis and normal tissue", *Gastrointestinal Endoscopy*, vol. 67, no. 6, pp. 861-867, 2008.

[25] **Xinyu Xu** and Baoxin Li, "Multiple class multiple-instance learning and its application to image categorization", *International Journal on Image and Graphics*, vol. 7, No. 3, pp. 427-444, July 2007.

[26] **Xinyu Xu** and Baoxin Li, "Adaptive Rao-Blackwellised Particle Filter and its Evaluation for Tracking in Surveillance", *IEEE Transactions on Image Processing*, vol. 16, issue 3, March 2007.

[27] **Zheshen Wang**, **Xinyu Xu**, and Baoxin Li, "Enabling seamless access to digital graphical contents for visually impaired individuals via semantic-aware processing," *EURASIP Journal on Image and Video Processing*, vol. 2007, Article ID 18019, 14 pages, 2007. doi:10.1155/2007/18019.

[28] C. Kwan, B. Li, R. Xu, X. Li, T. Tran, and T. Nguyen, "A Complete Image Compression Scheme Based on Overlapped Block Transform with Post-Processing", *EURASIP Journal on Applied Signal Processing*, Volume 2006, Article ID 10968, Pages 1–15, DOI 10.1155/ASP/2006/10968.

[29] Baoxin Li, Jim Errico, Hao Pan, and Ibrahim Sezan, "Bridging the Semantic Gap in Sports Video Retrieval and Summarization", *Journal of Visual Communication and Image Representation*, Vol. 15, pp. 393-424, Sept. 2004.

[30] B. Li and R. Chellappa, "A Generic Approach to Simultaneous Tracking and Verification", *IEEE Trans. on Image Processing*, Vol. 11, No. 5, May 2002.

[31] B. Li and R. Chellappa, "Face Verification Through Tracking Facial Features", *Journal of Optical Society of America - A*, Vol. 18, No. 12, Dec. 2001.

[32] B. Li, R. Chellappa, Q. Zheng, S. Der, N. Nasrabadi, L. Chen, and L. Wang, "Empirical Evaluation of FLIR-ATR Algorithms – A Comparative Study", *Computer Vision and Image Understanding*, Vol. 84, No.1, Oct. 2001.

[33] B. Li, Q. Zheng, R. Chellappa, and S. Der, "Model-Based Temporal Object Verification Using Video", *IEEE Trans. on Image Processing*, Vol. 10, No. 6, June 2001.

[34] Z. Liu and B. Li, "An Improvement on Kohonen's Self-Organizing Model", *Chinese Journal of Automation*, Vol. 6, No. 3, pp.173-176, 1994, Allerton Press, Inc. U.S.A.

Refereed Conference Papers

(Names in boldface: mentees for whom I am the sole or primary advisor.)

(20+ papers on the most competitive venues of **CVPR**, **ICCV**, **SIG KDD**, **IJCAI**, **AAAI**, **ACM MM**, **WWW**, **SIG ASSESTS**, including 2 CVPR Oral Papers.)

[1] **S. Hu, Y. Li** and B. Li, "Video2Vec: Learning Semantic Spatio-Temporal Embeddings for Video Representation", *International Conference on Pattern Recognition* (ICPR) 2016.

[2] **V. Gttupalli, P. Chandkkar**, and B. Li, "A Computational Approach to Relative Aesthetics", *International Conference on Pattern Recognition* (ICPR) 2016.

[3] **Z. Tu, J. Cao, Y. Li**, and B. Li, "MSR-CNN: Applying Motion Salient Region Based Descriptors for Action Recognition", *International Conference on Pattern Recognition* (ICPR) 2016.

[4] **R. Venkatesan, V. Gatupalli**, B. Li, "On the Generality of Neuroal Image Features", *IEEE Intl. Conference on Image Processing* (ICIP), September, 2016.

[5] **Y. Li, S. Hu** and B. Li, "Recognizing Unseen Action in a Domain-adaptive Embedding Space", *IEEE International Conference on International Conference on Image Processing* (ICIP) 2016.

[6] **X. Zhou, Y. Wang, P. Zhang**, B. Li, "Scale-adaptive Eigeneye for Fast Eye Detection in Wild Web Images", IEEE International Conference on Image Processing (ICIP), 2016

[7] **Q. Tian** and B. Li, "Weakly Hierarchical Lasso based Learning to Rank in Best Answer Prediction", *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2016.

[8] **Q. Tian, J. Lagisetty** and B. Li, "Finding Needles of Interested Tweets in the Haystack of Twitter Network", *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2016.

[9] **L. Chen**, B. Li, "*Clustering-based Joint Feature Selection for Semantic Attribute Prediction",* International Joint Conference on Artificial Intelligence **(**IJCAI**),** June, 2016.

[10] **Y. Wang**, S. Wang, J. Tang, H. Liu, B. Li, "Joint Pointwise and Pairwise Image Label Prediction", *IEEE International Conference on Computer Vision and Pattern Recognition* (CVPR), June, 2016.

[11] **P.S. Chandakkar** and B. Li, "Joint Regression and Ranking for Image Enhancement", *IEEE Winter Conference on Computer Vision and Applications* (WACV), March, 2016.

[12] **Q. Tian** and B. Li, "Simultaneous Semantic Segmentation of a Set of Partially Labeled Images", *IEEE Winter Conference on Computer Vision and Applications* (WACV), March, 2016.

[13] **Y. Wang, Q. Zhang** and B. Li, "Efficient Unsupervised Abnormal Crowd Activity Detection Based on a Spatiotemporal Saliency Detector", *IEEE Winter Conference on Computer Vision and Applications* (WACV), March, 2016.

[14] **R. Venkatesan, P.S. Chandakkar** and B. Li, "Simpler non-parametric methods provide as good or better results to multiple-instance learning", *IEEE International Conference on Computer Vision* (ICCV), December, 2015.

[15] **X. Zhou** and B. Li, "Retrieving Unfamiliar Faces: Towards Understanding Human Performance", *ACM Multimedia*, October, 2015.

[16] **Y. Wang, J. Cao** and B. Li, "Real Time Vehicle Back up Warning System with Single Camera", *IEEE International Conference on Image Processing* (ICIP), September, 2015.

[17] **Y. Wang**, S. Wang, J. Tang, H. Liu, B. Li, "Unsupervised Sentiment Analysis for Social Media Images", *International Joint Conference on Artificial Intelligence* (IJCAI), July, 2015

[18] **P.S. Chandakkar, Q. Tian** and B. Li, "Relative Learning from Web Images for Content-adaptive Enhancement", *IEEE International Conference on Multimedia and Expo (*ICME), June, 2015

[19] **L. Chen, Q. Zhang**, P. Zhang and B. Li, "Instructive Video Retrieval for Surgical Skill Coaching Using Attribute Learning", ICME, June 2015

[20] **L. Chen, P. Zhang** and B. Li, "Fusing Pointwise and Pairwise Labels for Supporting User-adaptive Image Retrieval", ACM International Conference and Multimedia Retrieval (ICMR), June, 2015.

[21] **Y. Wang, Q. Zhang** and B. Li, "Structure Preserving Image Quality Assessment*", IEEE International Conference on Multimedia and Expo (*ICME), June, 2015

[22] **Y. Wang, Y. Hu**, S. Kambhampati, B. Li, "Inferring Sentiment from Web Images with Joint Inference on Visual and Social Cues: A Regulated Matrix Factorization Approach", *AAAI International Conference on Web and Social Media* (ICWSM) (Oral), May, 2015.

[23] **P.S. Chandakkar, Y. Wang** and B. Li, "Improving Vision-based Self-positioning in Intelligent Transportation Systems via Integrated Lane and Vehicle Detection", *IEEE Winter Conference on Computer Vision and Applications* (WACV), January, 2015.

[24] **L. Chen**, **P. Zhang**, and B. Li, "Instructive Video Retrieval Based on Hybrid Ranking and Attribute Learning", ***ACM Multimedia (MM)***, November, 2014.

[25] **P. Chandakkar,** B. Li, "Investigating Human Factors in Image Forgery Detection", ***ACM Multimedia*** *Workshop on Human Centered Event Understanding from Multimedia*, November, 2014.

[26] **Q. Zhang**, J. Zhou, **Y. Wang**, J. Ye, B. Li, "Image Cosegmentation via Multi-task Learning", **British Machine Vision Conference** (*BMVC*), September, 2014.

[27] **L. Chen**, **Q. Zhang**, and B. Li, "Predicting Multiple Attributes via Relative Multi-task Learning", ***CVPR***, June, 2014.

[28] **Y. Wang, Q. Zhang,** and Baoxin Li, "Video Quality Assessment via Spatiotemporal Saliency Weighted SSIM", 8th *International Workshop on Video Processing and Quality Metrics*, January, 2014.

[29] **P. Zhang**, Xufei Wang, Baoxin Li, "On Predicting Twitter Hashtag Trend: Important Factors and Models", *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), Aug. 2013.

[30] **Q. Tian**, **P. Zhang**, Baoxin Li, "Predicting the Best Answers in Community-based Question-Answering Services", *International Conference on Weblogs and Social Media* (***WSM***), July, 2013.

[31] **Gazi Islam**, Kanav Kahol, Baoxin Li, "Developing a Real-time Low-cost System for Surgical Skill Training", *IEEE International Conference on Multimedia and Expo* (ICME), July, 2013.

[32] **Devi Paladugu**, **Parag Chandakkar**, **Peng Zhang**, Baoxin Li, "Supporting Navigation of Outdoor Shopping Complexs for Visually-Impaired Users Through Multi-model Data Fusion", *IEEE International Conference on Multimedia and Expo*, July, 2013.

[33] **Devi Paladugu**, Baoxin Li, "Towards Designing and Sustaining an Online Community for Visually Impaired Users", *IEEE Workshop on Multimodal and Alternative Perception for Visually Impaired People* (MAP4VIP), July, 2013.

[34] **Qiang Zhang** & Baoxin Li, "Relative Hidden Markov Model for Skill Evaluation", ***CVPR,*** June, 2013.

[35] **H. B. Maguluri**, **Q. Tian**, B. Li, "Detecting Text in Floor Maps Using Histogram of Oriented Gradients", *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, May 2013.

[36] **Gazi Islam**, Kanav Kahol, Baoxin Li, "An Affordable Real-time Assessment System for Surgical Skill Training", *ACM International Conference on Intelligent User Interfaces (**IUI**) 2013.*

[37] **L. Chen**, **Q. Zhang**, **Q. Tian**, B. Li, "Learning Skill-Defining Latent Space in Video-based Analysis of Surgical Expertise – A Multi-Stream Fusion Approach", NextMed / MMVR 2013 (Medicine Meets Virtual Reality) 2013.

[38] **Q. Tian**, **L. Chen**, **Q. Zhang**, B. Li, "Enhancing Fundamentals of Laparoscopic Surgery Trainer Box via Designing A Multi-Sensor Feedback System", NextMed / MMVR 2013.

[39] **Q. Zhang**, **L. Chen**, **Q. Tian**, B. Li, "Video-based Analysis of Motion Skills in Simulation-based Surgical Training ", *IS&T/SPIE Electronic Imaging*, 2013.

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