



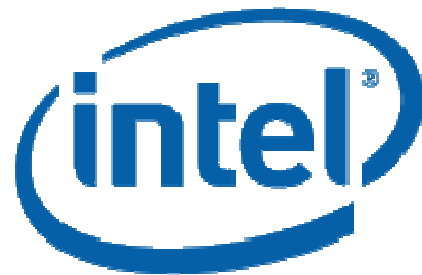
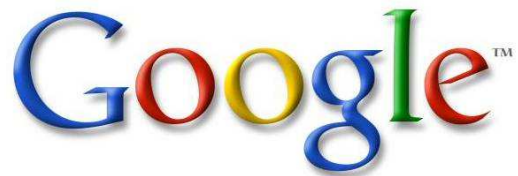
1st Sino-US Summer School on Vision, Learning, and Pattern Recognition

Beijing, China

Jul 20-27

2009

Sponsors



Welcome Message

Welcome to the 1st Sino-USA Summer School on Vision, Learning and Pattern Recognition (VLPR). We are excited to bring together a group of enthusiastic students, researchers and faculty cross China and US, for a one week intensive program in Beijing, China.

We are truly impressed by the immensely enthusiastic response to this summer school. We received nearly 400 applications from a group of highly qualified individuals coming from 85 Universities in China, US, Singapore, and Russia. Our admission committee worked hard to select 130 attendees, including PhD/master students, faculty, researchers, across all regions of China and US. We regret that many highly qualified individuals have to be turned away due to space limitation.

We express our sincere gratitude towards a group of 15 distinguished researchers from leading University in US to teach at this summer school: Misha Belkin, Alex Berg, Tamara Berg, Bob Collins, Tony Jebara, Yann LeCun, Yanxi Liu, Yi Ma, Silvio Savarese, Sinisa Todorovic, Zhuowen Tu, Eric Xing, and Song-Chun Zhu. Without their generous volunteering of their time, this school would not happen.

We would like to thank our sponsors, National Science Foundation (NSF), Google, Intel, for providing travel fellowships for US participants. We also wish to thank the National Laboratory of Pattern Recognition (NLPR) for their high-quality local support in Beijing. Special thanks go to our steering committee, Qiang Ji and Jie Yang from NSF, Tieniu Tan from NLPR, for their idea of the summer school. We also thank everyone involved in the organizing committee, Praveen Srinivasan from UPenn, Bangpeng Yao from Stanford, Chunhong Pan, Guan Luo, Xinwen Hou, Kaizhu Huang, Nianming Zuo, An Lu and Lingfeng Wang from NLPR, as well as Xianghua Ying and Yuru Pei from Peking University.

Computer vision and machine learning have seen tremendous progress over the last few years. In this summer school, we provide you a great opportunity to share your thoughts with many others in the communities through a series of talks, discussions, projects, workshops. This summer school is held in Beijing, the cultural capital in China. We hope this opportunity provides a platform for China-US cross-culture exchange.

Finally, we hope that you enjoy the week of scientific and culture exchanges.

- Li Fei-Fei, Jianbo Shi, Cheng-Lin Liu, and Hongbin Zha

Organizing Committee

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Li Fei-Fei
Princeton University - Stanford University
Jianbo Shi
University of Pennsylvania
Cheng-Lin Liu
NLPR, Chinese Academy of Sciences
Hongbin Zha
Peking University

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Yuru Pei
Peking University
Nianming Zuo
NLPR, Chinese Academy of Sciences

Sunday, July 19

12:30-17:15 Registration

17:15-20:30 Opening reception

Monday, July 20

08:30-09:15 Opening talk. *Li Fei-Fei, Jianbo Shi, Tieniu Tan, Hongbin Zha*

09:30-11:00 Talk I - Image Building block: features, detectors, descriptors, and classifiers. *Alex Berg*

11:00-11:15 Tea Break

11:15-12:30 Talk II - Recognizing Patterns, motions, shapes, and people. *Alex Berg* (15' Q&A)

12:30-13:45 Student/faculty lunch: introducing each other

13:45-15:45 Talk III - Dimensionality reduction via subspace learning and clustering. *Yi Ma* (30' discussions)

15:45-16:00 Tea Break

16:00-17:15 Talk IV - Error correction in high-dimensional spaces via convex optimization. *Yi Ma* (15' Q&A)

18:00-20:30 Student/faculty dinner: social activities

Tuesday, July 21

08:30-10:30 Talk V - Ensemble discriminative learning. *Zhuowen Tu* (30' discussions)

10:30-10:45 Tea Break

10:45-12:00 Talk VI - Supervised and weakly-supervised learning with implicit and explicit representations. *Zhuowen Tu* (15' Q&A)

12:00-13:45 Student/faculty lunch: academic discussions

13:15-15:45 Talk VII - Clustering. *Tony Jebara* (30' discussions)

15:45-16:00 Tea Break

16:00-17:15 Talk VIII - MAP estimation with perfect graphs. *Tony Jebara* (15' Q&A)

18:00-20:30 Student/faculty dinner: social activities

Wednesday, July 22

08:30-10:30 Talk IX - Deep learning. *Yann LeCun* (30' discussions)

10:30-10:45 Tea Break

10:45-12:00 Talk X - Learning visual feature hierarchies. *Yann LeCun* (15' Q&A)

12:00-13:45 Student/faculty lunch: academic discussions

13:45-15:45 Talk XI - Object recognition by discriminative methods. *Sinisa Todorovic* (30' discussions)

15:45-16:00 Tea Break

16:00-17:15 Talk XII - From hierarchies of regions to image understanding. *Sinisa Todorovic* (15' Q&A)

18:00-20:30 Student/faculty dinner: social activities

Thursday, July 23

08:30-10:00 Talk XIII - Graph theory. *Jianbo Shi* (15' Q&A)

10:00-11:00 Talk XIV – Graphs, geometry, and semi-supervised learning. *Mikhail Belkin* (15' Q&A)

11:00-11:15 Tea Break

11:15-12:30 Talk XV - Machine learning for computational regularity and saliency. *Yanxi Liu* (15' Q&A)

12:30-17:15 Mini-workshop (lunch included): research in China - industry and universities

18:00-20:30 Banquet

Friday, July 24

08:30-10:30 Talk XVI - Generative models: BayesNet, topic models. *Tamara Berg* (30' discussions)

10:30-10:45 Tea Break

10:45-12:00 Talk XVII - Internet vision - words, pictures, and more. *Tamara Berg* (15' Q&A)

12:00-13:45 Student/faculty lunch: academic discussions

13:45-15:45 Talk XVIII - Generative models: Non-parametric models. *Eric Xing* (30' discussions)

15:45-16:00 Tea Break

16:00-17:15 Talk XIX - Learning sparse, discriminative, structured input/output model: models, algorithms, and applications. *Eric Xing* (15' Q&A)

18:00-20:30 Student/faculty dinner: social activities

Saturday, July 25

08:30-17:15 All-day trip out of Beijing.

18:00-20:30 Student/faculty dinner: social activities

Sunday, July 26

08:30-10:30 Talk XX - Learning structures: AND-OR graphs. *Song-Chun Zhu* (30' discussions)

10:30-10:45 Tea Break

10:45-12:00 Talk XXI - Top-down/Bottom-up inference in graphs. *Song-Chun Zhu* (15' Q&A)

12:00-13:45 Student/faculty lunch: academic discussion

13:45-15:45 Talk XXII - Online learning for tracking. *Bob Collins* (30' discussion)

15:45-16:00 Tea Break

16:00-17:15 Talk XXIII - Automated video analysis of crowd behavior. *Bob Collins* (15' Q&A)

18:00-20:30 Student/faculty dinner: social activities

Monday, July 27

08:30-10:30 Talk XXIV - Methods for representing and recognizing 3D objects. *Silvio Savarese*

10:30-10:45 Tea Break

10:45-12:00 Talk XXV - Towards total scene understanding. *Li Fei-Fei*

12:00-17:15 Mini-workshop (lunch included): summer school course project presentations

18:00-20:30 Dinner discussion: reflections

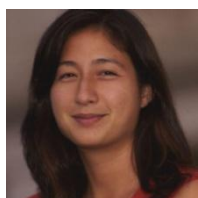


Mikhail Belkin

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Mikhail Belkin received his Ph.D from the Mathematics department at University of Chicago. He is currently an Assistant Professor in Computer Science and Statistics at Ohio State University.

His primary research interests are artificial intelligence and statistical pattern recognition. Together with Partha Niyogi, he proposed the Laplacian Eigenmap method for dimensionality reduction, and his recent research focuses on designing and analyzing algorithms for machine learning based on non-linear structure of multi-dimensional data, such as manifold and spectral methods. Mikhail Belkin received the National Science Foundation (NSF) Career Award in 2006. His research is currently supported by the National Science Foundation and the U.S Airforce Research Foundation.



Tamara L. Berg

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Tamara Berg graduated with a Ph.D. from the Computer Science Department at UC, Berkeley in the Spring of 2007 under the advisorship of Professor David Forsyth and was a member of the Berkeley Computer Vision Group. She spent 2007-2008 as a post-doc at Yahoo! Research developing various digital media related projects including the automatic annotation of consumer photographs. She is currently an Assistant Professor at Stony Brook University.

Her main research area is Digital Media, specifically focused on organizing large collections of images with associated text through the development of techniques in Natural Language Processing and Computer Vision. Past projects include: automatically identifying people in news photographs, classifying images from the web, and finding iconic images in consumer photo collections. She is also generally interested in bringing together people and expertise from various areas of Digital Media including digital art, music, and cultural studies.



Alex Berg

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Alex Berg is a research scientist at Columbia University. He completed a Ph.D. in Fall 2005, at U.C. Berkeley with Jitendra Malik, and was a research scientist at Yahoo! Research before joining Columbia.

He is interested in all aspects of computer vision and related problems in other fields. His thesis was on shape and object recognition in images using a new take-on deformable templates. He has also worked on recognizing and synthesizing human action in video, recovering human body poses from photographs, detecting and identifying human faces in images, detecting vehicles in images, and machine learning for computer vision.



Robert T. Collins

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Robert Collins is an associate professor at The Pennsylvania State University. He received his PhD in Computer Science in 1994 from the University of Massachusetts at Amherst. Prior to joining the faculty of Penn State he was research associate professor at the Robotics Institute of Carnegie Mellon University.

His research area is Computer Vision, with current emphasis on video scene understanding, human body segmentation, activity analysis, and real-time tracking. He teaches courses in the CSE and EE departments at PSU on Computer Vision and Image Processing, and runs the CSE Laboratory for Perception, Action and Cognition (LPAC).



Li Fei-Fei

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Li Fei-Fei is an assistant professor at Stanford University. She received her PhD from the Electrical Engineering Department at Caltech. Before joining Stanford, she worked in University of Illinois at Urbana & Champaign, and Princeton University.

Researches in her lab focus on two intimately connected branches of vision research: computer vision and human vision. In both fields, she is intrigued by visual functionalities that give rise to semantically meaningful interpretations of the visual world. In computer vision, she aspires to build intelligent visual algorithms that perform important visual perception tasks such as object recognition, scene categorization, integrative scene understanding, human motion recognition, material recognition, etc. In human vision, she studies the underlying neural mechanisms that enable the human visual system to perform high level visual tasks with amazing speed and efficiency.



Yann LeCun

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Yann LeCun is Silver Professor of Computer Science and Neural Science at the Courant Institute and the Center for Neural Science of New York University.

His current interests include machine learning, computer vision, pattern recognition, mobile robotics, and computational neuroscience. He has published over 140 technical papers and book chapters on these topics as well as on neural networks, handwriting recognition, image processing and compression, and VLSI design. His handwriting recognition technology is used by several banks around the world. His image compression technology, called DjVu, is used by hundreds of web sites and publishers and millions of users to access scanned documents on the Web, and his image recognition methods are used in video surveillance systems. Before joining NYU in 2003, he was a research scientist at Bell Laboratories, a department head at AT&T Labs, and a Fellow of the NEC Research Institute.



Tony Jebara

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Tony Jebara is Associate Professor of Computer Science at Columbia University and director of the Columbia Machine Learning Laboratory. He obtained his PhD in 2002 from Massachusetts Institute of Technology.

His research intersects computer science and statistics to develop new frameworks for learning from data with applications in vision, networks, spatio-temporal data, and text. He is also co-founder of Sense Networks. He has published over 60 peer-reviewed papers in conferences and journals including NIPS, ICML, UAI, COLT, JMLR, CVPR, ICCV, and AISTAT. He is the author of the book *Machine Learning: Discriminative and Generative*. He is the recipient of the Career award from the National Science Foundation. Recently, Esquire magazine named him one of their Best and Brightest of 2008.



Cheng-Lin Liu

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Cheng-Lin Liu received the Ph.D. degree in Pattern Recognition and Intelligent Systems from the Institute of Automation, Chinese Academy of Sciences, in 1995. He was a postdoctoral fellow at Korea Advanced Institute of Science and Technology (KAIST) and later at Tokyo University of Agriculture and Technology from March 1996 to March 1999. From 1999 to 2004, he was a research staff member and later a senior researcher at the Central Research Laboratory, Hitachi, Ltd., Tokyo, Japan. From 2005, he has been a Professor at the National Laboratory of Pattern Recognition (NLPR), Institute of Automation, Chinese Academy of Sciences, Beijing, China, and is now the Deputy Director of the laboratory. His research interests include pattern recognition, image processing, neural networks, machine learning, and especially the applications to character recognition and document analysis. He has published over 90 technical papers at international journals and conferences. He won the IAPR/ICDAR Young Investigator Award of 2005.



Yanxi Liu

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Yanxi Liu is an associate professor in the Computer Science Engineering and Electrical Engineering departments of Penn State University. She is also an adjunct faculty member of the School of Computer Science, Carnegie Mellon University, and radiology department of University of Pittsburgh Medical Center.

Her research interests span a wide range of computer vision, graphics, robotics and computer aided diagnosis in medicine, with an emphasis on two complementary themes: computational symmetry and discriminative subspace learning. Computational symmetry addresses issues of robust representation, detection, and reasoning about real world symmetry using group theory, as well as the diverse applications of (a)symmetry analysis and quantification. Her work on discriminative subspace learning deals with automatically discovering features that distinguish between similar objects. Her unique combination of these two themes has led to the identification of many challenging research frontiers in machine and human perception.



Yi Ma

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Yi Ma received the PhD degree in EECS, from the University of California at Berkeley. Upon graduation in August 2000, he joined the Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, where he now is an associate professor. Starting from spring 2009, he serves as research manager for the Visual Computing Group at Microsoft Research Asia, Beijing, China.

His research interests include computer vision and systems theory. Recent research topics include multiple-view geometry, vision-based control, clustering and classification of high-dimensional data, estimation of hybrid models and systems. His work has found broad applications in areas such as reconstruction of 3-D structures from 2-D images, segmentation of natural images, and face recognition. He has published more than seventy peer-reviewed articles. He is the first author of the textbook "An Invitation to 3-D Vision," published by Springer in 2003.



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Silvio Savarese is an Assistant Professor of Electrical Engineering at the University of Michigan, Ann Arbor. He earned his PhD in Electrical Engineering from the California Institute of Technology in 2005. He joined the University of Illinois at Urbana-Champaign from 2005 to 2008 as a Beckman Institute Fellow. In 2002 he was a recipient of the Walker von Brimer Award for outstanding research initiative. His research interests include computer vision, object and scene recognition, shape representation and reconstruction, human visual perception and visual psychophysics.



Jianbo Shi

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Jianbo Shi received his Ph.D. in Computer Science from University of California at Berkeley in 1998, for his thesis on Normalize Cuts image segmentation algorithm. He joined the Robotics Institute at Carnegie Mellon University in 1999 as a research faculty. In January 2003, he joined the Department of Computer & Information Science at University of Pennsylvania where he is currently an Associate Professor.

His current research focuses on human behavior analysis and image recognition-segmentation. His other research interests include image/video retrieval, and vision based desktop computing. His long-term interests center around a broader area of machine intelligence, he wishes to develop a "visual thinking" module that allows computers not only to understand the environment around us, but also to achieve higher level cognitive abilities such as machine memory and learning.



Tieniu Tan

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Tieniu Tan received his PhD from Imperial College London in 1989. In October 1989, he joined the Department of Computer Science, University of Reading, U.K., where he worked as Research Fellow, Senior Research Fellow and Lecturer. In 1998, he returned to China to join the National Laboratory of Pattern Recognition (NLPR), Institute of Automation of the Chinese Academy of Sciences (CAS), where he has been Professor and Director of the NLPR since 1998, and is a former Director General of the Institute (2000-2007). He is currently Deputy Secretary General of the CAS and also Head of the Department of Automation of the University of Science and Technology of China (USTC). His current research interests include biometrics, image and video analysis, and information security. He is Fellow of IEEE and IAPR and has published more than 300 papers in refereed journals and international conferences.



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Sinisa Todorovic received his Ph.D. in electrical and computer engineering at the University of Florida in 2005. He was a Postdoctoral Research Associate in the Beckman Institute at the UIUC, between 2005-2008. Currently, he is an Assistant Professor in the School of EECS at Oregon State University. His research interests include computer vision and machine learning, with focus on object recognition, texture analysis, and video object segmentation. His synergistic activities include: Associate Editor of Image and Vision Computing Journal, Program Chair of 1st International Workshop on Stochastic Image Grammars 2009, and reviewer for all major journals and conferences in computer vision. He was awarded Jack Neubauer Best Paper Award by the IEEE Vehicular Technology Society in 2004, and the Outstanding Reviewer award by 11th IEEE International Conference on Computer Vision in 2007.



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Zhuowen Tu is an assistant professor in the laboratory of neuro imaging (LONI), Department of Neurology, with a joint appointment in the Department of Computer Science, University of California, Los Angeles. He is also affiliated with the Bioengineering IDP program and Bioinformatics IDP program at UCLA. He received his PhD from the Ohio State University and his M.E. from Tsinghua University. Before joining the LONI, he was a member of technical staff at Siemens Corporate Research. Dr. Tu received the NSF CAREER award in 2009 and was awarded with the David Marr Prize (with collaborators) in 2003.

His research has been on the interface of medical imaging, machine learning, statistical modeling /computing, and computer vision. More specifically, he studies the representation problems and develops learning algorithms for medical imaging and computer vision.



Eric P. Xing

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Eric Xing is an associate professor in the School of Computer Science at Carnegie Mellon University. His principal research interests lie in the development of machine learning and statistical methodology; especially for solving problems involving automated learning, reasoning, and decision-making in high-dimensional and dynamic possible worlds; and for building quantitative models and predictive understandings of biological systems. Professor Xing received a Ph.D. in Molecular Biology from Rutgers University, and another Ph.D. in Computer Science from UC Berkeley. His current work involves, 1) foundations of statistical learning, including theory and algorithms for estimating time/space varying-coefficient models, sparse structured input/output models, and nonparametric Bayesian models; 2) computational and statistical analysis of gene regulation, genetic variation, and disease associations; and 3) application of statistical learning in social networks, data mining, vision. He has published over 90 peer-reviewed papers. He is a recipient of the NSF Career Award, and the Alfred P. Sloan Research Fellowship in Computer Science.

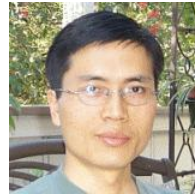


Hongbin Zha

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Hongbin Zha is a Professor of Machine Intelligence at Peking University. He received the Ph.D. degree in electrical engineering from Kyushu University, Japan, in 1990. After working as a Research Associate in the Department of Control Engineering and Science, Kyushu Institute of Technology, Japan, he joined Kyushu University in 1991 as an Associate Professor. He was also a Visiting Professor in Centre for Vision, Speech and Signal Processing, Surrey University, UK, in 1999. Since 2000, he has been with the Key Lab on Machine Perception and Department of Machine Intelligence, School of Electronics Engineering and Computer Science, Peking University.

His research interests include computer vision theory and techniques for image understanding, virtual reality and robotics. He has over 200 technical publications in various journals, books and international conference proceedings.



Song-Chun Zhu

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Song-Chun Zhu is a professor of Statistics and Computer Science at UCLA. His research interest includes Computer Vision, Learning, Statistical Modeling and Inference, and Vision and Visual Arts. He received his PhD degree from Harvard University in 1996. He worked at Brown University, Stanford University, and Ohio State University before joining UCLA in 2002. He has co-authored more than 100 peer reviewed papers in computer vision, and received a David Marr Prize in 2003 for image parsing, twice Marr Prize honorary nominations in 1999 for texture modeling and 2007 for learning deformable templates with colleagues, and the Aggarwal Prize in 2008 from the Int'l Association for Pattern Recognition for his contributions to a unified foundation of vision. In 2005, he founded an independent and non-profit organization - Lotus Hill Research Institute in China as an open platform for international collaborations.

Students



Paolo Barbano (G. 8)

Dr. PE. Barbano holds a PhD in Mathematics from CUNY-Graduate Center and a MS from the University of Rome I. He has worked as a Research Associate at the Center for Large Scale Computation, New York, NY, taught at the Courant Institute (NYU) and Yale University and Cambridge University. He is co-author on over thirty technical publications in Engineering, Mathematics and the Biomedical Sciences. Dr. Barbano holds several US patents in Waveform Design and Signal processing. Dr. Barbano's areas of expertise are Mathematical Signal Processing, Feature extraction in Noisy Data as well as Pattern Recognition for RF applications and sensing.

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Carlos D. Castillo (G. 6)

He received the BS and MS degrees in Computer Science from the Universidad Simón Bolívar in Caracas, Venezuela ('03 and '05). He is currently a Ph.D. candidate in the Department of Computer Science at the University of Maryland. His research interests include computer vision and related problems such as object detection and recognition, and machine learning.

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Pegasus received his bachelor degree in Computer Science in 2009 from Beijing Normal University. He will pursue a Ph.D. degree in Statistics at UCLA since 2009 fall, under the supervision of Prof. Alan L. Yuille. His research interests focus on statistical learning and computer vision.

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Gang Chen (G. 4)

He received his B.S degree in engineering from Wuhan University in 2004. He is studying for master degree in computer science in the graduate school of Chinese academy of sciences. His research interests include PDE based methods for image processing and computer vision, pattern recognition, heuristic algorithm, and iterative methods.

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He is a third year Ph.D. student in the Department of Computer Science at the University of California, Irvine. He is studying in the area of machine learning and computer vision under the direction of Prof. Max Welling. His research interest includes Markov Random Fields and its applications in images, time series and the area of neural science.

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Jian Cheng (G. 6)

I am a PhD student in Institute of Automation, Chinese Academy of Sciences. My research interests are in Image Processing, Computer and Biological Vision and include in particular the area related to manifold related methods. During my PhD study, I focus on the modelation of diffusion MRI in medical mage analysis.

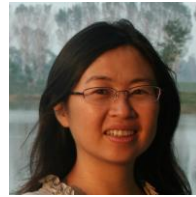
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Wongun Choi (G. 8)

He is a PhD student in EECS department of University of Michigan since 2008. He received his Bachelor's degree from EE department of Seoul National University, South Korea in 2008. He is interested in broad issues in Computer Vision and Machine Learning with particular interest on various recognition problems based on probabilistic models.

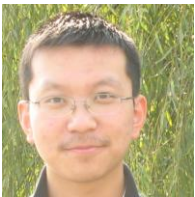
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Jinshi Cui (G. 7)

She received the B.Sc. (1999) and Ph.D. (2004)degrees in computer science from Tsinghua University in Beijing, China. Since 2004, she has been a faculty in the department of Machine Intelligence in Peking University. She is now an Associate professor in Peking University. Her current research interests are human body detection, tracking and pose estimation, with application to intelligent surveillance and driver assistance.

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Bo Dai (G. 6)

I am a master candidate of Institute Automation, Chinese Academy of Science, advised by Bao-gang Hu. I got my BS in computer science from Nanjing University. I am doing some research work on machine learning and computer vision, including semi-supervised learning, information-theoretic learning and object/scene recognition. I am interesting in playing football, listening music and reading in my free time.

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Yinhui Deng (G. 2)

He is at his third year (Five-year Program) of Ph.D candidate majoring in Medical Electronics (Biomedical Engineering) in Fudan University. His research is mainly about the medical ultrasound image processing. His interests are broad, such as music, movie, sports, photography, travel, philosophy and so on.

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Guohua Dong (G. 5)

He graduated from College of Mechatronics and Automation, National University of Defence Technology, with a Master Degree in Automatic Control. From 2003, he began to learn and study vision theory, together with interest in pattern recognition and learning theory. From 2006, his interest has been mainly focused on object recognition. He pursued his PhD degree since 2007. He became an associate professor since 2008.

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Jing Dong (G. 9)

Ph.D Candidate of National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences. Her research generally involves in image processing, pattern recognition and digital forensics. Her two main research interests are image steganalysis and digital image authentication (tempering detection).

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Jun Feng (G. 10)

She received her B.Sc. degree in Information Engineering from XiDian University and MPhil degree in Computer Science from Northwest University respectively, both in Xi'an, China. Then she became an instructor in Northwest University. Then she received her PhD degree from Computer Science of City University of Hong Kong in Jan. 2006. Currently, she has been appointed as Associate Professor by Northwest University in China. Her research interests include medical image processing, 3D reconstruction and pattern recognition.

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Jun Gao (G. 7)

I grew up in Shanxi, China and attended Beihang University for my BS in Automation Engineering. Now I am studying in the Institute of Automation, Chinese Academy of Sciences to pursue a PhD, advised by Weiming Hu. My research interests include machine learning, data mining, and network security.

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Li Gao (G. 2)

I received my PhD degree in Signal and Information Processing from Institute of Acoustics, Chinese Academy of Science (CAS), Beijing, China, in 2007. I am currently a research associate at Institute of Acoustics, CAS. My research interests include image and video processing, computer vision, pattern recognition, video coding, and signal processing.

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Karol Gregor (G. 6)

He worked in the past primarily in the area of theoretical condensed matter physics, most recently as a postdoc at Caltech. He became a postdoc in machine learning and computational neuroscience with Prof. Yann LeCun at New York University one year ago. The overall theme of his research is to develop a rather general neural algorithms that would be capable of various computations performed by our brain, elucidate their operations and at the same time be powerful enough to solve practical problems.

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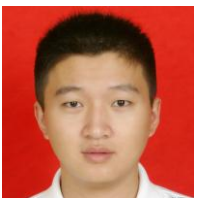
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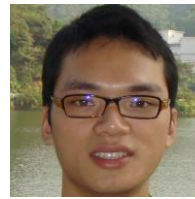
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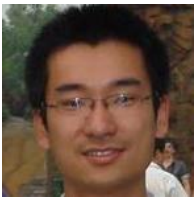
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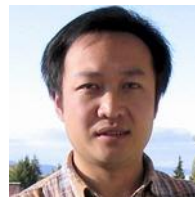
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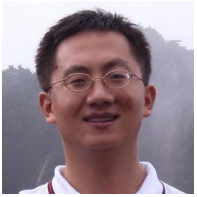
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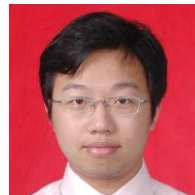
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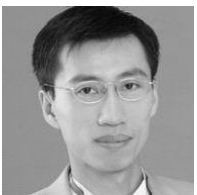
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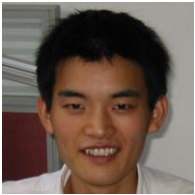
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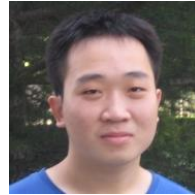
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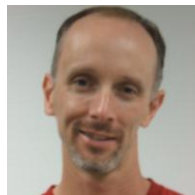
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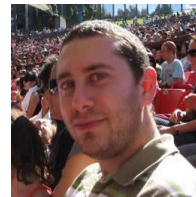
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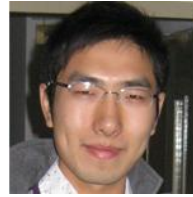
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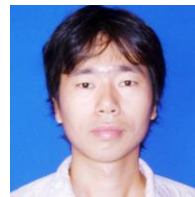
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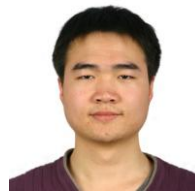
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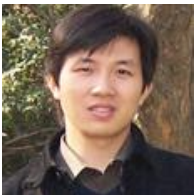
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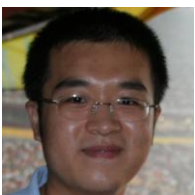
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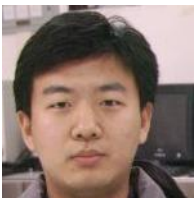


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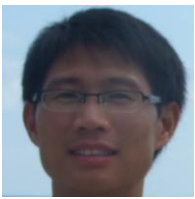


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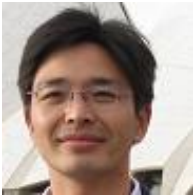
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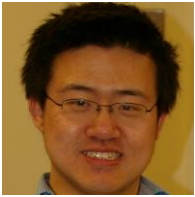
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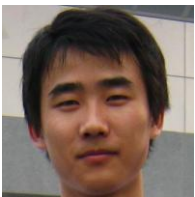
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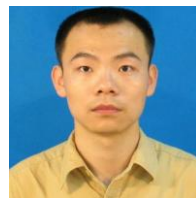
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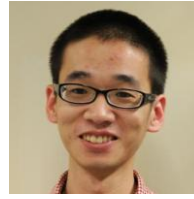
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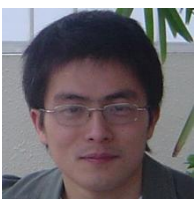
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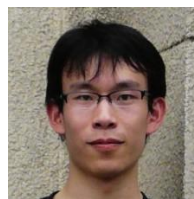
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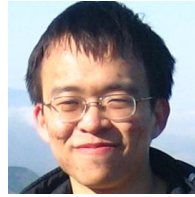
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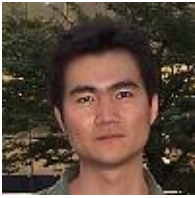
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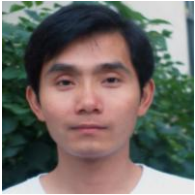
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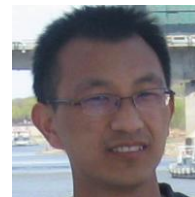
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Safety Instructions and Emergency Contact

Safety Instructions

- Don't negotiate with the street vendors if you don't want to buy;
- Don't take unlicensed taxi;
- If you go alone far away from the conference location, leave a message to a coordinator;
- Don't attend any activities that have nothing to do with the summer school, including religious, politics, and suchlike.

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Local Map

The 1st Sino-US Summer School on Vision, Learning, and Pattern Recognition is held at The Overseas Exchange Center, Peking University, Beijing, China.



**The 1st Sino-US Summer School on
Vision, Learning, and Pattern Recognition
July 20-28, 2009, Beijing, China (VLPR 2009)**

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