



# Vision And Learning SEminar (VALSE2014)

April 19 - 20, 2014

中国·青岛

## 2014 视觉与学习青年研讨会

### 程序手册

联合承办：

中国海洋大学

山东大学

中国石油大学（华东）



赞助单位：

北京百度网讯科技有限公司



## 欢迎来到 VALSE2014!

VALSE 年度研讨会的主要目的是为计算机视觉、图像处理、模式识别与机器学习研究领域内的中国青年学者（以 1970 年以后出生的研发人员为主）提供一个深层次学术交流的舞台。

在这个舞台上，我们恪守并倡导理性批判、勇于探索、实证、创新等科学精神；在这个舞台上，我们倡导自由平等原则下、理性而纯学术的百家争鸣和思想交锋；这个舞台上，我们期望欣赏到国内青年学者越来越优美的学术华尔兹 (VALSE)；通过这个舞台，我们期望促进国内青年学者的思想交流和学术合作，从而在相关领域做出重量级学术贡献，提升中国学者在国际学术舞台上的学术影响力。

VALSE 2011, VALSE 2012, VALSE 2013 分别在杭州、西安和南京成功举办。2014 年，VALSE 将来到美丽的海滨城市——青岛，由中国海洋大学，山东大学，中国石油大学（华东）共同承办，会议地点在中国海洋大学逸夫科技馆。

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## 一、会议程序委员会

### VALSE 指导委员会成员（按姓氏拼音排序）

高新波，西安电子科技大学

何晓飞，浙江大学

李学龙，中国科学院西安光学精密机械研究所

刘青山，轮值主席，南京信息工程大学

马毅，上海科技大学

潘纲，浙江大学

山世光，中国科学院计算技术研究所

徐东，南洋理工大学

颜水成，新加坡国立大学

杨健，南京理工大学

余凯，百度

周昆，浙江大学

周志华，南京大学

### VALSE2014 共同主席

董军宇，中国海洋大学

许信顺，山东大学

尹义龙，山东大学

任鹏，中国石油大学

## 二、会议日程安排

<b>2014年4月18日</b>		
	14:00-19:00	登记报到 地点：中国海洋大学鱼山校区逸夫科技馆
<b>2014年4月19日</b>		
上午	主持人：董军宇	
	08:30-08:40	开幕式
	主持人：高新波	
	08:40-09:30	马毅 待定
	09:30-10:20	山世光 Visual Representation and Metrics for Classification with Image Sets
	10:20-10:40	休息，照相
	主持人：马毅	
	10:40-11:30	樊彬 局部图像特征描述
	11:30-12:20	林惊 Inference and Learning with Grammar Models for Visual Recognition
	12:20-14:00	午餐
下午	主持人：周昆	
	14:00-14:50	张磊 Sparse Representation and Low Rank Methods for Image Restoration and Classification
	主持人：徐东	
	14:50-15:40	Poster Spotlight (1分钟/篇)
	15:40-17:10	休息，顶会牛刊 Poster 及 demo 展示
	主持人：颜水成	
	17:10-18:00	吴飞 Deep Multi-Modal Embedding: from the Shadow Model to the Deep Model
	18:00	晚餐

## 2014年4月20日

上午	主持人：李学龙		
	08:30-09:20	黄昌兵	Visual Perceptual Learning
	09:20-10:10	徐东	SVM Based Approaches for Domain Adaptation
	10:10-10:30	休息	
	主持人：杨健		
	10:30-11:20	耿新	Label Distribution Learning and Its Applications in Computer Vision
	11:20-12:10	卢湖川	Learning Effective Appearance Models in Visual Tracking
	12:10-13:30	午餐	
下午	主持人：刘青山		
	13:30-13:50	VALSE2015 申办投票	
	主持人：潘纲		
	13:50-14:40	袁晓彤	Sparsity-Constrained Optimization: Hard-Thresholding Algorithms and Applications in Data Mining
	14:40-15:30	朱军	Bayesian Learning with Rich Side Information
	15:30-15:40	休息	
	主持人：山世光		
	15:40-17:20	Panel Discussions	
	主持人：刘青山		
	17:20-17:30	闭幕式	

### 三、会议详细信息

#### Invited Speakers (Alphabetical family name list)

##### 1. 报告人：樊 彬，中国科学院自动化研究所

报告题目：局部图像特征描述

**报告摘要：**局部图像特征描述是计算机视觉的基本研究问题之一，在宽基线立体匹配、图像三维重建、图像拼接、物体识别、图像检索等领域均有着重要应用。以 SIFT 算法的提出为标志，该领域逐渐发展成熟，近年来提出了许多较为有效的特征描述方法，也逐渐得到了广泛的应用。局部图像特征描述的基本思想是利用一个向量对某个局部图像区域进行表述，克服成像过程时各种内外部因素引起的图像变化所带来的影响，以获得稳定、区分力强的特征表达，从而有力地地区分出不同的局部图像结构，并将相同的局部图像结构对应起来。在此基础上，并结合一些特定的应用，研究人员提出了许多各具特色的局部图像特征描述方法。在本报告中，我将首先简要回顾一下局部图像特征描述方法在过去 10 年的发展历程，并介绍几种典型的特征描述方法。然后介绍我们所提出的基于灰度序的特征描述方法。



**简介：**Bin Fan is an Assistant Professor at the National Laboratory of Pattern Recognition (NLPR), Institute of Automation, Chinese Academy of Sciences (CASIA) since July 2011. Before joined NLPR, he received his B.E. degree from Beijing University of Chemical Technology (BUCT) in 2006, and Ph.D. degree from NLPR, CASIA in 2011 under supervision of Prof. Fuchao Wu. Bin Fan has wide research interests in Computer Vision.

Previously, his research is mainly focused local invariant feature, which is fundamental for many applications, such as image classification, 3D reconstruction, object recognition. He has published over 10 scientific papers in highly ranked conferences and journals in the field, including PAMI, PR, CVPR, ICCV, BMVC. He serves as regular reviewer for top-ranking journals and on program committee member for several conferences. He is currently a member of IEEE.

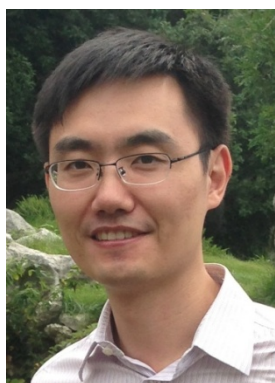


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## 2. 报告人：耿 新，东南大学

报告题目：Label Distribution Learning and Its Applications in Computer Vision

报告摘要：Label distribution learning (LDL) is a novel learning paradigm. A label distribution covers a certain number of labels, representing the degree to which each label describes the instance. LDL is a general learning framework which includes both single-label and multi-label learning as its special cases. It has been successfully applied to several computer vision problems, such as facial age estimation, head posed estimation, and natural scene image labeling.



**简介：**耿新博士，现为东南大学计算机科学与工程学院副院长、副研究员、博导。分别于 2001 年和 2004 年在南京大学计算机科学与技术系获理学学士学位和工学硕士学位，2008 年获得澳大利亚 Deakin 大学博士学位。主要研究兴趣包括机器学习、模式识别、计算机视觉。近年来，在这些领域发表各类学术论文 30 余篇。现为中国人工智能学会机器学习专委会委员、江苏省计算机学会人工智能专委会常务委员、江苏省微型电脑应用协会人工智能专委会常务委员。

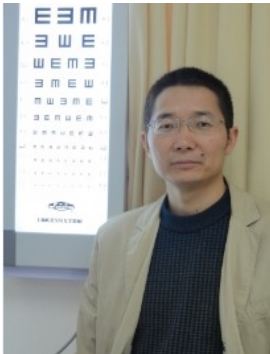
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## 3. 报告人：黄昌兵，中国科学院心理研究所

报告题目：Visual Perceptual Learning

报告摘要：Practice makes perfect. Perceptual learning is critical for any creatures to survive in an ever-changing external world, throughout life and across all modalities. Perceptual learning can be specific to the trained eye, retinal location, category, orientation, task, and motion direction. Although it has been the focus of psychological and neuroscience researches for centuries, the mechanisms of perceptual learning still remains hot debate. In a series of studies, we investigated the properties (e.g. magnitude, inter-ocular/task/frequency transferability, and retention) of perceptual learning of contrast detection in normal and abnormal vision and how it can be modulated by other factors, e.g. reward. We also constructed an Augmented Hebbian Weight-reweighting Model (AHWM) to explain why

learning a Vernier task didn't benefit subject's performance in a bisection task even the two tasks shared the same input stimuli.



**简介:** 黄昌兵, 中国科学院心理研究所研究员, 中国科学院百人计划入选者。2006 年获中国科学技术大学生物物理与神经生物学博士学位, 2007 至 2011 年在美国南加州大学心理学系从事博士后研究。主要采用计算建模、心理物理学和成像等技术手段多角度研究双眼信息整合与功能平衡、知觉学习与可塑性、视觉功能调控、信息表征与记忆、弱视/老年等视觉功能退损的机制与恢复途径等理论和实际问题。在 PNAS、Current Biology 和 JOV 等杂志发表论文近 20 篇。

#### 4. 报告人: 林 惊, 中山大学

**报告题目:** Inference and Learning with Grammar Model for Visual Recognition

**报告摘要:** In the last ten years, computer vision and machine learning experience a resurgence of research on stochastic grammars, which has been also relevant to several rising techniques of broad interests such as structured prediction, deep learning, and dictionary learning. The virtue of grammar models lies in their expressive power to represent an exponentially large number of concepts by using a relatively much smaller vocabulary, and a few compositional rules. This talk will introduce the basic concepts, theories, and algorithms for learning and inference with grammar models, and also discusses several advanced progresses, particularly in visual recognition. In addition, some new trends along this path are also presented, e.g. new problems in higher level vision.



**简介:** Liang Lin is a full Professor with the School of Supercomputing, Sun Yat-Sen University (SYSU), China. He received the B.S. and Ph.D. degrees from the Beijing Institute of Technology (BIT), Beijing, China, in 1999 and 2008, respectively. From 2006 to 2007, he was a joint Ph.D. student with the Department of Statistics, University of California, Los Angeles (UCLA). He was a Post-Doctoral Research Fellow with the Center for Vision, Cognition, Learning, and Art of UCLA. He received several academic honors, including China National Excellent PhD Thesis Award

Nomination in 2010, Best Paper Runners-Up Award in ACM NPAR 2010, and Google Faculty Award in 2012. He was also awarded by the “Program for New Century Excellent Talents” of Ministry of Education (China) in 2012, and the Guangdong Natural Science Funds for Distinguished Young Scholars in 2013. His current research interests are on the interface of computational models for vision, statistical learning and computing, and multimedia processing. He has authored or co-authored over 60 academic papers over a wide range of research topics. He fulfills review duties for more than 20 journals and various conferences including IEEE TPAMI, IEEE TIP, IEEE TCSVT, IEEE TMM, IJCV, Neurocomputing, PR, CVPR, ICCV, and ICPR.

## 5. 报告人：卢湖川，大连理工大学

报告题目：Learning Effective Appearance Model in Visual Tracking

报告摘要：Visual tracking has long been a challenging application for two reasons. On one hand, the target itself changes at times, like people being tracked would change their poses, which makes new target appearances into being and the trackers should accommodate to them. On the other hand, various factors like occlusion, illumination changes, background clutter, etc, bring disturbing changes to the target appearance model, leading the trackers into possible drifts. Therefore how to build an appearance model that effective in learning new target appearance yet robust to the noise is of great interest. We explore the topic from multiple aspects, including low-level feature selection and noise modeling, mid-level feature extraction, as well as high-level template generation and update.

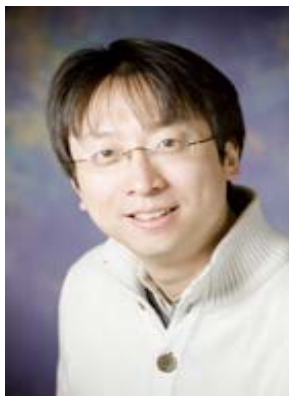


**简介：**卢湖川，教授，博导，现为大连理工大学信息与通信工程学院副院长，1995年，1998年于大连理工大学电子系获得学士和硕士学位，2008年于大连理工大学获得系统工程博士学位。目前担任 IEEE Transaction on SMC Part B 副编辑，IEEE Senior Member。主要研究领域为目标跟踪，显著性目标检测，姿态识别等。迄今已在国际/国内期刊、国际会议上发表/录用学术论文 100 余篇，其中计算机视觉领域一流国际会议 (CVPR, ICCV) 和国际顶级期刊 IEEE T-IP/T-CSVT 论文 20 余篇。在 ICCV2011 上获得 Most Remembered Poster，在 ICIP2012 上获得 Best Student Paper Award Finalist。

## 6. 报告人：马 毅，上海科技大学

报告题目：待定

报告摘要：待定



**简介：** Yi Ma was born in Sichuan Province, China. He received Bachelors degree in Automation and Applied Mathematics from Tsinghua University, Beijing, China, in 1995. He received an Master degree in Electrical Engineering and Computer Sciences (EECS) in 1997, a second Master degree in Mathematics in 2000, and the Ph.D. degree in EECS in 2000, all from the University of California at Berkeley. From 2000 to 2011, he served as a tenured associated professor of the Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, where he now holds an Adjunct Professorship. He also serves as a research associate professor both in the Decision & Control Group of the Coordinated Science Laboratory and in the Image Formation & Processing Group of the Beckman Institute. He was a visiting senior researcher at the Microsoft Research Asia, Beijing, China in fall 2006 and a visiting professor at EECS Department of UC Berkeley in spring 2007. Since January 2009, he has served as research manager for the Visual Computing Group at Microsoft Research Asia, Beijing, China. From January 2012, he also holds a Guest Professorship at the Univeristy of Science and Technology of China. He has served as an associate editor of the IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) from 2007 to 2011. He has also served as the chief guest editor for special issues for the Proceedings of IEEE and the IEEE Signal Processing Magazine in 2010 and 2011. He currently serves as the associate editors for the IEEE Transactions on Information Theory, the International Journal of Computer Vision (IJCV), the IMA Journal on Information and Inference, and the SIAM Journal on Imaging Sciences. He serves as an Area Chair for NIPS 2011 and ICCV 2011 (Spain), and will be the Program Chair for ICCV 2013 (Australia), and General Chair for ICCV 2015 (Chile).

## 7. 报告人：山世光，中国科学院计算技术研究所

报告题目：Visual Representation and Metrics for Classification with Image Sets

报告摘要：Visual representation is the fundamental of many computer vision tasks. Historically, the last decade has witnessed the prosperity of local features and sparse representation. And, more recently, deep learning is blooming for learning hierarchical representation. However, most of them focus on the representation of single image or a few images, which however is quite different from biological vision system (BVS). During most vision tasks, BVS actually takes numerous images of the object of interest even in a few seconds, benefiting from unconscious eye movement. In this talk, I will introduce some of our recent works on visual representation and metrics for classification with image sets, in which multiple images are densely sampled for the object to be recognized. In our methods, the image set is collectively represented as a Riemannian manifold, thus forming some interesting novel problems, including distance computation between manifolds (published in CVPR08/09/12), Covariance Discriminative Learning (CVPR12), and Learning Euclidean-to-Riemannian Metric (accepted by CVPR2014).



**简介：**山世光，博士，研究员，博士生导师。分别于1997年和1999年在哈尔滨工业大学计算机系获得学士和硕士学位；2004年在中科院计算所获计算机应用专业博士学位。主要从事计算机视觉、模式识别、机器学习等相关研究工作。已在国际/国内期刊、国际会议上发表/录用学术论文150余篇，其中IEEE Trans. on PAMI, IEEE Trans. on Image Processing等国际期刊论文40余篇，计算机视觉领域一流国际会议（CVPR, ICCV, ECCV）论文30余篇。Google scholar总引用4900余次。现任国际刊物IEEE Trans. on Image Processing, Neurocomputing, IPSJ T on CVA和EURASIP Journal of Image and Video Processing的编委（AE），Frontiers of Computer Science的青年编委，曾担任国际期刊IJPRAI、PRL专刊的客座编辑（Guest Editor），应邀担任了ICPR2014, ICASSP2014, FG2013, ICPR2012, ACCV2012, ICCV2011的Area Chair职务，ACCV2014的Workshop Chair, ACM ICMI2010的Local Chair。

与博士生王瑞平合作完成的有关流形到流形距离的论文获CVPR2008 Best Student Poster Award Runner-up。所参与完成的人脸识别研究成果2005年度国家科技进步二等奖（第3完成人）。

2008 年度中国科学院卢嘉锡青年人才奖获得者。2009 年度北京市科技新星获得者。2009 年获首届 Scopus 寻找未来科学之星银奖。2012 年获得基金委“优青”支持。

## 8. 报告人：吴 飞，浙江大学

报告题目：Deep Multi-Modal Embedding: From the Shadow Model to the Deep Model

报告摘要：Nowadays many real-world applications involve multi-modal data. The retrieval, hashing and ranking of cross-modal retrieval is imperative to many applications of the practical interest, such as finding relevant textual documents of a tourist spot that best match a given image of the spot or finding a set of images that visually best illustrate a given text description. The heterogeneity-gap between multi-modal data has been widely understood as a fundamental barrier for the cross-modal metric learning. In this talk, I will first overview two kinds of multi-modal embedding approaches, namely statistical dependency modeling (e.g., canonical correlation analysis and its variants) and probabilistic graphical modeling (e.g., Latent Dirichlet Allocation and its extensions). Then I will introduce some of task-specific multi-modal embedding approaches, for examples, factorized/coupled dictionary learning, the ranking-based joint model and the multi-modal hashing based methods. At last, I will describe some remarkable advance of multi-modal embedding via deep learning.



**简介：**吴飞，浙江大学计算机学院教授、博士生导师。主要研究领域为多媒体计算理论、稀疏表达与统计学习等。浙江大学人工智能研究所副所长、视觉感知教育部-微软重点实验室（浙江大学）副主任。教育部新世纪优秀人才支持计划入选者（2011 年度）、浙江省 151 人才工程第二层次培养人员（2012 年）。在浙江大学新星计划资助下，于 2009 年 10 月至 2010 年 8 月在美国加州大学伯克利分校统计系郁彬（Bin Yu）教授课题组做访问学

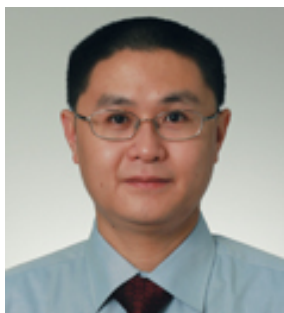
者。



## 9. 报告人：徐 东，南洋理工大学

报告题目：SVM Based Approaches for Domain Adaptation

报告摘要：Domain adaptation (also called transfer learning) is an emerging research topic in computer vision. In some vision applications, the domain of interest (i.e., the target domain) contains very few or even no labeled samples, while an existing domain (i.e., the auxiliary domain) is often available with a large number of labeled examples. For example, millions of loosely labeled Flickr photos or YouTube videos can be readily obtained by using keywords (also called tags) based search. On the other hand, users may be interested in retrieving and organizing their own multimedia collections of images and videos at the semantic level, but may be reluctant to put forth the effort to annotate their photos and videos by themselves. This problem becomes furthermore challenging because the feature distributions of training samples from the web domain and consumer domain may differ tremendously in statistical properties. To explicitly cope with the feature distribution mismatch for the samples from different domains, I will describe our SVM based approaches for domain adaptation under different settings as well as their interesting applications in computer vision.

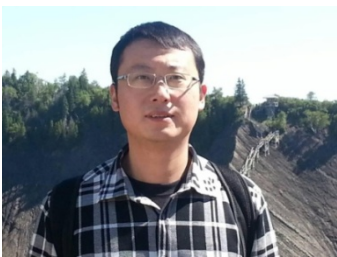


**简介：** Dong Xu is currently an associate professor with School of Computer Engineering at Nanyang Technological University. He is an active researcher working on computer vision, multimedia and machine learning. He has published more than 50 papers in IEEE Transactions (including 8 papers in T-PAMI) and more than 30 papers in top tier conferences CVPR, ICCV, ECCV, ICML, ACM MM and MICCAI. He was the co-author (with his former PhD student Lixin Duan) of a paper that won the Best Student Paper Award in CVPR 2010. His publications have been cited more than 4000 times in Google Scholar. He is on the editorial boards of IEEE Transactions on Pattern Analysis and Machine Intelligence and IEEE Transactions on Neural Networks and Learning Systems. He is currently serving as a program co-chair of ICME 2014. He has served as an area chair of CVPR 2012, a program co-chair of PCM 2012, and guest editors of special issues in IJCV, T-CSVT, T-SMC-B and ACM TOMCCAP.

## 10.报告人：袁晓彤，南京信息工程大学

报告题目：Sparsity-Constrained Optimization: Hard-Thresholding Algorithms and Applications in Data Mining

报告摘要：In the past decade, sparsity models have received broad research interests in high-dimensional statistical learning and signal processing. A basic assumption of sparsity models is that the datasets need to be processed exhibit certain low-dimensional structure, which can usually be captured by imposing sparsity constraint on the model parameter space. Therefore it is crucial to develop robust and efficient computational procedures to solve sparsity-constrained optimization problems. In this talk, I'm going to introduce several hard-thresholding methods for sparsity-constrained optimization problems including sparse principle component analysis, sparse logistic regression and sparse SVMs. The main theme of our greedy selection methods is to truncate the intermediate outputs during the iteration to successively approximate the positions of non-zero entries and estimate their values. Theoretical guarantees on these methods are provided. Extensive experiments on several large scale text mining and graph mining tasks demonstrate the competitive performance of our methods.



**简介：**Xiaotong Yuan received a B.A. in computer science from Nanjing University of Posts and Telecommunications in 2002, a M.E. in electrical engineering from Shanghai Jiao-Tong University in 2005, and a Ph.D. in pattern recognition from Chinese Academy of Sciences in 2009. After graduation, he held various appointments as postdoctoral research associate working at the Department of Electrical and Computer Engineering at National University of Singapore, the Department of Statistics and Biostatistics at Rutgers University, and the Department of Statistical Science at Cornell University. In 2013, he joined the School of Information and Control at Nanjing University of Information Science & Technology where he currently is a professor of information science. His main research interests include machine learning, data mining, and computer vision. He has authored/co-authored more than 40 technical papers over a wide range of research topics. He received the winner prize of the classification task in PASCAL VOC '10.



## 11. 报告人：张 磊，香港理工大学

报告题目：Sparse Representation and Low Rank Methods for Image Restoration and Classification

报告摘要：Sparse representation and low rank techniques have shown promising results in image processing and computer vision. In this talk I will discuss why sparse representation and low rank work for image restoration, and briefly introduce the nonlocally centralized sparse representation (NCSR) model and the weighted nuclear norm minimization (WNNM) model we recently developed. Sparse representation has also been attracting significant attention in image classification tasks such as face recognition. However, it is still not clear what a kind of classifier it is and why it can improve classification performance. In this talk, I will also show our recent findings along this line.



**简介：** Lei Zhang received the B.Sc. degree in 1995 from Shenyang Institute of Aeronautical Engineering, Shenyang, P.R. China, the M.Sc. and Ph.D degrees in Control Theory and Engineering from Northwestern Polytechnical University, Xi' an, P.R. China, respectively in 1998 and 2001. From 2001 to 2002, he was a research associate in the Dept. of Computing, The Hong Kong Polytechnic University. From Jan. 2003 to Jan. 2006 he worked as a Postdoctoral Fellow in the Dept. of Electrical and Computer Engineering, McMaster University, Canada. In 2006, he joined the Dept. of Computing, The Hong Kong Polytechnic University, as an Assistant Professor. Since Sept. 2010, he has been an Associate Professor in the same department. His research interests include Image and Video Processing, Computer Vision, Pattern Recognition and Biometrics, etc. Dr. Zhang has published about 200 papers in those areas. Dr. Zhang is currently an Associate Editor of IEEE Trans. on CSVT and Image and Vision Computing. He was awarded the 2012-13 Faculty Award in Research and Scholarly Activities. More information can be found in his homepage <http://www4.comp.polyu.edu.hk/~cslzhang/>.

## 12. 报告人：朱 军，清华大学

报告题目：Bayesian Learning with Rich Side Information

报告摘要：Bayesian methods represent one important school of statistical methods for learning, inference and decision making. At the core is Bayes' theorem, which has been developed for more than 250 years. The last decades have also seen the substantial developments of nonparametric Bayesian methods in statistics, machine learning, and many application areas. In this talk, I will introduce some recent developments on extending Bayes' theorem to incorporate rich side information, which can be the large-margin property we like to impose on the model distribution, or the domain knowledge collected from experts or the crowds. The generic framework to do such tasks is called regularized Bayesian inference (RegBayes). I will introduce the basic ideas of RegBayes as well as several concrete examples.



**简介：**朱军，清华大学计算机系副教授、博士生导师。分别于2005年和2009年获清华大学计算机学士和博士学位，2009到2011年在美国卡内基梅隆大学做博士后，2011年回清华任教至今。主要研究方向为机器学习、概率图模型、贝叶斯统计及其在数据挖掘、图像处理等领域的应用。在国际顶级会议（ICML、NIPS、SIGKDD、IJCAI等）与期刊（JMLR, PAMI等）发表论文近50篇。受邀担任ICML2014, UAI2014, NIPS2013等顶级

国际会议的领域主席或资深程序委员，担任ICML2014本地联合主席。入选IEEE Intelligent Systems国际杂志评选的AI's 10 to Watch (2013)和清华大学221基础研究人才计划(2012)，荣获国家自然科学基金委优秀青年基金(2013)，中国计算机学会青年科学家(2013)，中国计算机学会优秀博士论文(2009)，以及微软学者(2007)等。

## Steering Committee (Alphabetical family name list)

### 1. 高新波，西安电子科技大学



**简介:** 高新波，男，1972 年生于山东莱芜，博士，教授，博士生导师。分别于 1994 年、1997 年和 1999 年获得西安电子科技大学的学士、硕士和博士学位。曾赴日本静冈大学、香港中文大学等访学。2001 年回到母校任教，从事机器学习及其在多媒体内容分析的理论及其应用研究。近年来，主持包括国家自然科学基金重点项目、面上项目 10 余项，发表 SCI 论文 90 余篇，授权国家发明专利 12 项，获陕西省省科学技术一等奖 2 项。2004 年入选教育部新世纪优秀人才支持计划，2006 年获得霍英东教育基金会高等院校青年教师奖，2009 年入选新世纪百千万人才工程国家级人选，2011 年获得国家杰出青年科学基金资助。现为 IETFellow、IET 西安分会副主席、IEEE 高级会员、IEEE 西安分会执行委及会员发展委员会主席、CCF 理事、CCF 多值逻辑与模糊逻辑专委会主任、CCF 青工委常委、中国图像图形学学会常委理事、陕西省图像图形学学会副理事长。此外，他还担任多个国际学术期刊的编委。

### 2. 何晓飞，浙江大学



**简介:** 何晓飞，浙江大学计算机学院教授，博士生导师，国家杰出青年科学基金获得者。2000 年毕业于浙江大学计算机系，获得学士学位。2005 年毕业于芝加哥大学，获得博士学位。2005 年 10 月加入美国雅虎研究院，任职研究员，负责广告搜索相关的研究工作。2007 年作为人才引进，加入浙江大学 CAD&CG 国家重点实验室，建立起了机器学习和信息检索研究团队。近年来共发表论文 60 余篇并申请了 7 项美国发明专利，其中 3 项已经获得授权，论文共被他人引用 3000 余次。

### 3. 李学龙，中科院西安光学精密机械研究所



**简介:**李学龙,西光所国重副主任、光学影像分析与学习中心(OPTIMAL)主任。研究成像视觉和模识,如张量分析、视觉浓缩、成像同后处理的联系等。主要关注遥感和监控等工程应用,如研制了第一台多分辨率相机。IEEE 汇刊 120+。SCI 引用 3000+。H 指数 40+。主席 60+、PC 300+。曾/现任 SCI 期刊编委 18 (如《中国科学》/ PR / TIP / TNN / TCSVT / TSMCB / TSMCC / TCYB)。千人、杰青。中国青年五四奖章、陈嘉庚青年科学奖、中国青年科技奖、中科院青年科学家奖。IEEE / IAPR / OSA / SPIE / IEE / BCS / HEA 的 Fellow, 国际欧亚科学院院士、国际青年科学院会员。

### 4. 刘青山，轮值主席，南京信息工程大学



**简介:**刘青山,博士,教授,IEEE 高级会员,中国计算机学会会员,现为南京信息工程大学信息与控制学院院长。2003年毕业于中国科学院自动化研究所模式识别国家重点实验室,获得博士学位,并留实验室工作。同年,获得中国科学院院长优秀奖。2004年6月至2005年4月再香港中文大学做合作访问研究。2006年1月聘为副研究员。2006年4月起赴美 Rutgers 大学访问学习和工作。研究方向为图像与视频分析、模式识别等。现已在国内外重要学术期刊和重要国际会议上发表论文 80 余篇。担任国际杂志 Neuro Computing, Advance in Multimedia 编委, IEEE Trans. On Multimedia, Computer Vision and Image Understanding, Pattern Recognition Letters 客座编委,十余种国际重要学术期刊的审稿人,担任国际人脸与姿态识别大会 2013 年的 Demos/Exhibitions。

### 5. 马毅，上海科技大学

**简介:**请见第 8 页。

## 6. 潘纲，浙江大学



**简介：**潘纲 教授/博导，分别于 1998 年、2004 年获得浙江大学学士与博士学位，2007 年美国加州大学洛杉矶分校(UCLA)访问。目前担任中国计算机学会普适计算专委会秘书长，ACM 杭州 Chapter 副主席，中国计算机学会多媒体专委会委员，中国图像图形学会多媒体专委会委员。入选教育部新世纪优秀人才支持计划、浙江省新世纪 151 人才工程(第二层次)、浙江省“钱江人才”计划等。近年来，主持国家自然科学基金、863 计划、浙江省自然科学基金等科研项目 20 余项。已发表论文 100 多篇(包括 IEEE TIP、IEEE TITS、IEEE IS Mag.、IEEE Comm. Mag.、ACM Computing Survey 等国际权威期刊，以及 CVPR, ICCV, IJCAI 等国际权威会议)，获授权发明专利 14 项。担任《中国计算机学会通讯》编委，IEEE T-PAMI、T-IP、PR 等多个国际重要刊物审稿人，曾担任 20 多个国际学术会议程序委员会委员。

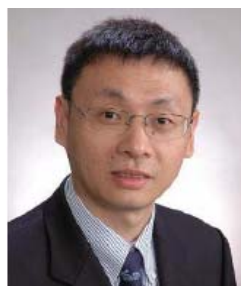
## 7. 山世光，中国科学院计算技术研究所

**简介：**请见第 9 页。

## 8. 徐东，新加坡南洋理工大学

**简介：**请见第 11 页。

## 9. 颜水成，新加坡国立大学



**简介：**Dr. Yan Shuicheng is currently an Associate Professor in the Department of Electrical and Computer Engineering at National University of Singapore, and the founding lead of the Learning and Vision Research Group (<http://www.lv-nus.org>). Dr. Yan's research areas include computer vision, multimedia and machine learning, and he has authored/co-authored over 370 technical papers over a wide range of research topics, with Google Scholar

citation >11,000 times and H-index-47. He is an associate editor of Journal of Computer Vision and Image Understanding, IEEE Transactions on Circuits and Systems for Video Technology (IEEE TCSVT) and ACM Transactions on Intelligent Systems and Technology (ACM TIST), and has been serving as the guest editor of the special issues for TMM and CVIU. He received the Best Paper Awards from ACM MM13 (Best Paper and Best Student Paper), ACM MM'12 (demo), PCM'11, ACM MM'10, ICME'10 and ICIMCS'09, the winner prizes of the classification task in PASCAL VOC 2010-2012, the winner prize of the segmentation task in PASCAL VOC 2012, the honorable mention prize of the detection task in PASCAL VOC'10, 2010 TCSVT Best Associate Editor (BAE) Award, 2010 Young Faculty Research Award, 2011 Singapore Young Scientist Award, 2012 NUS Young Researcher Award, and the co-author of the best student paper awards of PREMIA'09, PREMIA'11 and PREMIA'12.

## 10. 杨健，南京理工大学



简介: Jian Yang (国家杰青) received the BS degree in mathematics from the Xuzhou Normal University in 1995. He received the MS degree in applied mathematics from the Changsha Railway University in 1998 and the PhD degree from the Nanjing University of Science and Technology (NUST), on the subject of pattern recognition research at the University of Zaragoza.

From 2004 to 2006, he was a Postdoctoral Fellow at Biometrics Centre of Hong Kong Polytechnic University. From 2006 to 2007, he was a Postdoctoral Fellow at Department of Computer Science of New Jersey Institute of Technology of NUST. He is the author of more than 80 scientific papers have been cited more than 1600 times in the ISI Web of Science, and 2800 times in the Web of Scholar Google. His research interests include pattern recognition, computer vision and machine learning. Currently, he is an associate editor of Pattern Recognition Letters and IEEE Trans. Neural Networks, respectively.

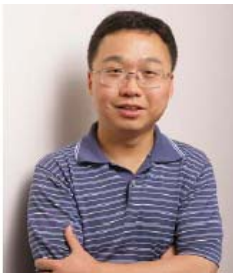


## 11. 余凯，百度深度学习研究院



**简介：**余凯，毕业于南京大学，并于 2004 年从德国慕尼黑大学获得计算机博士学位，曾担任南京大学旧金山湾区校友会主席，拥有 12 年在欧洲和美国的工业界经历，一直从事核心技术研发和团队管理。他是机器学习、计算机视觉、信息检索，和数据挖掘等人工智能领域的知名专家，发表 70 多篇高质量的论文，被引用超过 4000 次，H-index 为 31，曾获得第 30 届机器学习国际会议 (ICML) 的最佳论文奖银奖。2011 年应邀在著名的斯坦福大学计算机系任 Adjunct Faculty，主讲研究生课程“CS121: Introduction to AI”。他领导的 NEC 团队在 PASAL VOC, ImageNet 等竞赛中多次获得国际第一。在百度他领导语音、图像等基础技术团队，其中语音技术团队获得仅有的三个“2012 年度百度最佳团队”之一。他推动了深度学习在百度的各个互联网业务方向的技术研发和应用，获得“中关高端领军人才”和“北京市海聚计划海外高层次人才”荣誉，入选第九批中组部“千人计划”国家特聘专家，担任北京邮电大学、南京大学兼职教授，和中科院计算所客座研究员。现为百度深度学习研究院 (IDL) 常务副院长。

## 12. 周昆，浙江大学



**简介：**周昆，1977 年生，浙江大学计算机辅助设计与图形学国家重点实验室主任，浙江大学计算机学院副院长，教育部长江学者特聘教授，国家杰出青年科学基金获得者。2002 年获浙江大学工学博士学位，2002 至 2008 年就职于微软亚洲研究院，历任副研究员、研究员和研究主管，2008 年全职回到浙江大学工作。研究领域包括计算机图形学、人机交互和并行计算。近年来在图形学基础算法、图形软件开发平台和 GPU 并行计算等方向取得多项创新成果，仅在图形学顶级期刊《ACM Transactions on Graphics》上发表论文 40 篇，论文他引 3000 余次，获得美国发明专利 20 余项，其中多项技术被应用在 Windows 操作系统、Windows 图形系统 DirectX、视频游戏 Halo 3、以及影视特效制作软件中。现担任学术期刊《ACM Transactions on Graphics》、《The Visual Computer》、《Frontiers of Computer Science》编委，担任《IEEE Spectrum》编辑顾问委员会委员，担任沙特阿拉伯国王科技大学几何造型与科学可视化中心科学顾问。

近年来获得的奖励有 2009 年 NVIDIA Professor Partnership Award、2010 年中国计算机图形学杰出奖、2011 年中国青年科技奖、2011 年麻省理工学院《技术评论》全球杰出青年创新人物奖 (MIT TR35 Award)，2012 年中组部首批青年拔尖人才支持计划，2013 年国家自然科学二等奖。

### 13.周志华，南京大学



**简介：**周志华，男，1973 年 11 月生。分别于 1996 年 6 月、1998 年 6 月和 2000 年 12 月于 南京大学计算机科学与技术系 获学士、硕士和博士学位。2001 年 1 月起留校任教。2003 年获 国家杰出青年科学基金，2006 年入选 教育部长江学者特聘教授。现任 南京大学计算机科学与技术系副主任、南京大学计算机软件新技术国家重点实验室 常务副主任、机器学习与数据挖掘研究所 (LAMDA) 所长，校、系学术委员会委员。国际计算机学会 (ACM) 杰出科学家，国际电气电子工程师学会 (IEEE) 会士，国际模式识别学会 (IAPR) 会士， 国际工程技术学会 (IET/IEE) 会士，中国计算机学会会士。主要从事人工智能、机器学习、数据挖掘、模式识别等领域的研究工作。主持多项科研课题，在重要国际学术期刊和会议 发表论文 100 余篇，获发明专利 12 项。曾任 *Frontiers of Computer Science* 执行主编，*科学通报*、*计算机科学与探索* 等刊副主编，*ACM Transactions on Intelligent Systems and Technology*、*IEEE Transactions on Neural Networks and Learning Systems*、*中国科学* 等十余种国内外学术期刊的 Associate Editor 或编委，*Machine Learning*、*Pattern Recognition*、*IEEE Intelligent Systems* 等刊客座编辑。现为 中国计算机学会青工委主任，人工智能与模式识别专业委员会主任，中国人工智能学会机器学习专业委员会主任，IEEE 计算智能学会，数据挖掘技术委员会 副主席，IEEE 南京分部副主席，IEEE 计算机学会南京分会主席。



## 1. 董军宇，中国海洋大学



**简介：**董军宇，教授，博士生导师。1993年毕业于青岛海洋大学应用数学系应用数学专业，获得学士学位，1996年至1999年在青岛海洋大学应用数学系攻读硕士，2000年至2003年在英国 Heriot-Watt 大学纹理实验室攻读博士学位。2004年回国后加入中国海洋大学，加入计算机科学与技术系，现任计算机系主任。2007年5月至10月受到英国 British Council 资助，在英国剑桥 Sanger 研究所从事合作研究；2007年6月至2011年5月受聘于法国南特大学担任访问教授；自2008年10月至2012年7月，担任英国 Heriot-Watt 大学纹理实验室兼职博士生导师。目前负责的视觉实验室，已经形成了贯穿人类视觉感知、计算机视觉和水下视觉的研究思路和路线，在大数据的背景下，通过学习人类视觉感知过程，将获得的理论结果用于指导计算机视觉及水下视觉。目前具体开展了纹理感知、基于多幅图像的三维重建、基于机器视觉的产品检测、基于计算机视觉技术的面部特征检测、水下高分辨率三维表面重建、海洋数据挖掘与可视化仿真等研究内容。主持承担了多个国际项目，国家级、省部级及青岛市级科技项目，在国际期刊及国际学术会议上发表论文60余篇。近年来，主持承担了国家科技部国际合作专项1项，国家自然科学基金3项，省部级项目4项及青岛市级科技项目1项，参加国家海洋公益专项项目1项，各类项目总经费1000余万元。目前已获得两项国家发明专利。获得两项奖励。目前负责的视觉实验室，已经形成了贯穿生物视觉（即人类视觉感知）、计算机视觉和水下视觉的研究思路和路线，通过学习人类视觉感知过程，将获得的理论结果用于指导计算机视觉及水下视觉。目前具体开展了纹理感知、基于多幅图像的三维重建、基于机器视觉的产品检测、基于计算机视觉技术的面部特征检测、水下高分辨率三维表面重建、海洋数据挖掘与可视化仿真等研究内容。

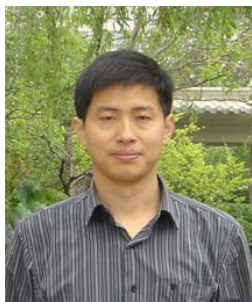
## 2. 许信顺，山东大学



**简介:** 许信顺, 男, 1975 年生。2002 年于山东大学计算机科学与技术学院获硕士学位, 2005 年于日本 Toyama University 获博士学位。2005 年加入山东大学计算机科学与技术学院, 被聘为副教授; 2010 年晋升为教授。2009 年至 2012 年为南京大学机器学习与数据挖掘研究组博士后, 合作导师为周志华教授。教育部新世纪优秀人才支持计划入选者。现为山东大学计算机科学与技术学院教授、计算机软件与理论研究所所长, 机器学习与

媒体分析研究组负责人。中国计算机学会青年科技论坛济南分论坛副主席, 中国人工智能学会机器学习专业委员会委员, 中国计算机学会多值逻辑与模糊逻辑专业委员会委员, 中国计算机学会人工智能与模式识别专业委员会通讯委员。在重要国际会议和期刊发表论文 50 余篇, 其中包括 ACM Multimedia, ACM CIKM, ACM ICMR, Neurocomputing 等。多个国际、国内学术会议的程序委员会委员或分会主席或审稿人, 如 ACM Multimedia 2012、IEEE SMC2012、ICPRAM2012, 2013, 2014、CCML2011, 2012, 2013、CCIR2011 等。多个国际国内期刊的审稿人, IEEE Trans. SMC、Neurocomputing、Signal Processing、Multimedia Tools and Applications、软件学报、计算机学报、计算机研究与发展等。

### 3. 尹义龙, 山东大学



**简介:** 尹义龙, 教授, 博士, 博士生导师。2000 年在吉林大学获得工学博士学位, 2000-2002 年在南京大学做博士后。2002 年 8 月进入山东大学计算机科学与技术学院工作。近年来, 主持国家自然科学基金、山东省自然科学基金重点项目、山东省博士基金、山东省高新技术自主创新工程专项、山东省科技攻关计划等国家级、省部级科研项目 7 项, 在

国内外学术期刊和会议发表学术论文 50 余篇, 其中 34 篇被 SCI、EI、ISTP 收录。现担任中国人工智能学会理事、机器学习专委会常务委员等学术兼职, 先后 20 余次担任国际、国内学术会议的会议主席、程序委员会主席、程序委员会委员、分组会议主席。

### 4. 任鹏, 中国石油大学

**简介:** 任鹏, 博士, 教授。先后获哈尔滨工业大学学士、硕士, 英国约克大学(The University of York)博士学位。曾任电子科技大学副教授, 现任中国石油大学信息与控制工程学院教授。多次赴美国、日本、瑞士、意大利、韩国等国参加学术会议并进行学术交流。国际期刊 *IEEE Trans. On Neural Networks and Learning Systems* 和 *Neurocomputing* 等审稿人。国家自然科学基金委项目评审人。获英国科技委员会(Research Councils)颁发的“Dorothy Hodgkin 奖”, 英国约克大学颁发的 “KM Stott 奖”, 中国国家留学基金委颁发的“国家优秀自费留学生”等奖项。主持国家自然科学基金项目一项, 参与 863、欧盟等项目若干项。在国内外顶级学术期刊和会议上发表论文二十余篇。

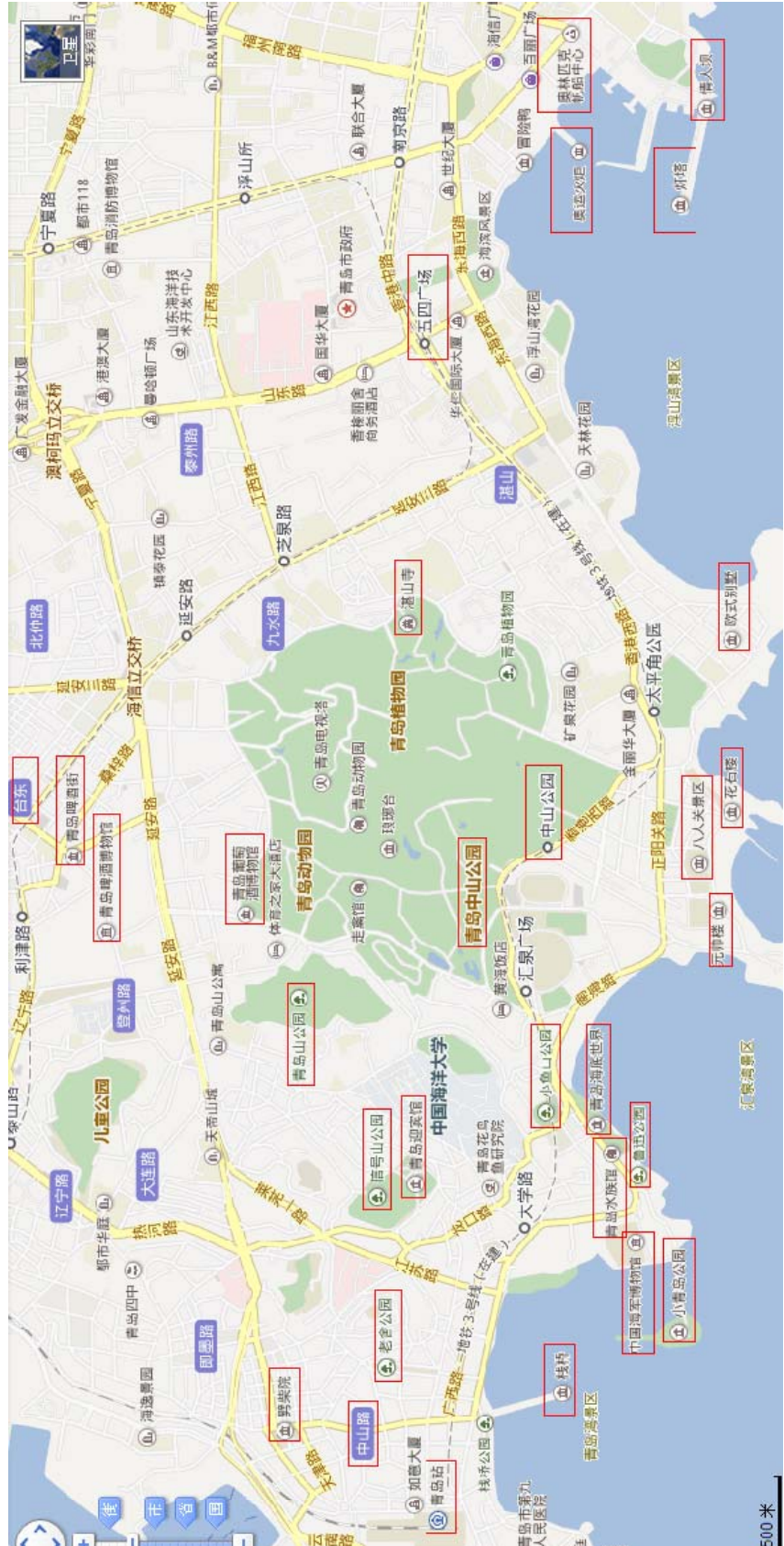
## **Volunteers**

VALSE2014 的志愿者都来自于中国海洋大学信息科学与工程学院, 他们是:

王婷、张述、刘君、孔德远、杨薇丹、张婷、程威、范浩、张述、吴健、吴则举、郑雨、蔡晓旭、杨洁、蔡亚娟、杨攀、楼建文、赵浩然、寻锦锦、刘浩、曹静、张晓旭、李婧、张翠、陈龙、于敬爱、周子希、朱亚男、毕敬琛、张倩、张文斌、翁洋、丁凡、王勇训、董林荣、何婕、李洁、董梦娇。

## 四、会场及酒店周边

### 中国海洋大学鱼山校区周边旅游信息





# 中国海洋大学鱼山校区



VALSE2014 会场是在中国海洋大学逸夫科技馆，位于中国海洋大学鱼山校区内。中国海洋大学鱼山校区地理位置优越，靠近前海一线，校园内有众多历史建筑，例如俾斯麦军营、日本中学校舍等，校园内树木繁茂、郁郁葱葱，校区被一片名人故居环绕，带给海大百年文化积淀。依山傍海、绿树环绕、鸟语花香、欧式建筑，共同造就了“中国最美十大校园”之一的鱼山校区。

学校周边交通便利，具有各类酒店旅馆和餐饮小吃，周边聚集了青岛最著名的一系列景点，例如栈桥、八大关、中山公园、鲁迅公园、海底世界、天主教堂、文化名人故居、海水浴场等，可以非常便利的领略青岛的红瓦绿树、碧海蓝天。

## 五、中国海洋大学学术交流中心

中国海洋大学学术交流中心为中国海洋大学直属单位，于 2004 年 10 月 24 日开业，坐落于鱼山校区内，北距流亭机场 20 分钟车程，西距火车站 5 分钟车程，依山傍海，环境幽雅，人文气息浓郁，四下古木参天，处处花香莺啼。



学术交流中心是中国海洋大学投资建造的集文化学术交流、教育培训、名人活动、大型会议、旅游接待、餐饮客房等为一体的综合性涉外大酒店。中国海洋大学学术交流中心是我校学术交流活动的窗口，是我校开启学术交流活动、国内外会展服务、各种形式教育培训和宾馆服务的理想场所。中心广泛拓展与国内外知名学术与文化机构的联系和交流，建立国际文化交流合作关系，在各种大型接待活动中以一流的服务多次获得客人好评。

地址：山东省青岛市鱼山路 5 号

电话：0532-8293188

## 六、交通

- ✚ 火车站→步行至**青岛火车站**公交车站→307路(或25路、223路、501路、316路、304路、321路、202路环线)公交,在**大学路站**下车→步行至中国海洋大学鱼山校区
- ✚ 青岛北站→步行至**火车北站东广场站**→325路公交,在**水清沟站**下车→步行至中国海洋大学鱼山校区
- ✚ 青岛流亭机场→步行至**青岛国际机场站**→乘坐机场2线,在**栈桥(火车站)**站下车→步行至青岛火车站→307路(或25路、223路、501路、316路、304路、321路、202路环线)公交,在**大学路站**下车→步行至中国海洋大学鱼山校区
- ✚ 海大学术中心到逸夫馆(会场所在地)步行即可



## 七、周边餐饮信息

- 粥全粥到家常菜馆，山东省青岛市嫩江路 10 号
- 华春餐馆，大学路 4 号东方饭店内（大学路与龙口路交叉口附近）
- 花园饺子馆，青岛市南区龙口路 13 号
- 海港兄弟鱼水饺，莱芜二路 33 号
- 东方饭店宴会厅，青岛市南区鱼山路 5 号海洋大学鱼山校区附近（近福山路）（鲁菜，海鲜）
- 天香楼特色川菜馆，青岛市北区丹东路 2 号（近齐东路）（川菜）
- 彤德莱火锅，市北区丹东路 1 号（近齐东路邮局）

## 附件一、Valse2014 POSTERS

### 1. 邓伟洪, 北京邮电大学

Poster 1: Weihong Deng, et al., Transform-Invariant PCA: A Unified Approach to Fully Automatic Face Alignment, Representation, and Recognition, IEEE TPAMI, 2014.

Poster 2: Weihong Deng, et al., Extended SRC: Undersampled Face Recognition via Intra-class Variant Dictionary, IEEE TPAMI, 2012.

### 2. 姜育刚, 复旦大学

Poster 3 : Yu-Gang Jiang, Yanran Wang, Rui Feng, Xiangyang Xue, Yingbin Zheng, Hanfang Yang, Understanding and Predicting Interestingness of Videos, The 27th AAAI Conference on Artificial Intelligence (AAAI), Bellevue, Washington, USA, Jul. 2013.

### 3. 金鑫, 北京电子科技学院

Poster 4: Xiaowu Chen, Hongyu Wu, Xin Jin\* (通信作者) and Qingping Zhao. Face Illumination Manipulation using a Single Reference Image by Adaptive Layer Decomposition. IEEE Transactions on Image Processing (TIP), Vol. 2, No. 11, pp. 4249 - 4259, Nov. 2013.

### 4. 刘宝弟, 中国石油大学 (华东)

Poster 5: Bao-Di Liu, Yu-Xiong Wang, Yu-Jin Zhang, Bin Shen, Learning dictionary on manifolds for image classification, Pattern Recognition, 46(7), 1879-1890, 2013

### 5. 王粼波, 南京大学 (有 DEMO 展示)

Poster 6 : Yanwen Guo, Ye Chen, Feng Tang, Ang Li, Weitao Luo, and Mingming Liu, Object Tracking Using Learned Feature Manifolds, Computer Vision and Image Understanding, 2014, 118:128-139, DOI: 10.1016/j.cviu.2013.09.007.

Poster 7: Chuan Wang, Yanwen Guo, Jie Zhu, Linbo Wang, and Wenping Wang, Video Object Co-Segmentation via Subspace Clustering and Quadratic Pseudo-Boolean Optimization in an MRF Framework, IEEE Transactions on Multimedia 2014

### 6. 王瑞平, 中国科学院计算技术研究所

Poster 8: Ruiping Wang, HuiminGuo, Larry S. Davis, Qionghai Dai, "Covariance Discriminative Learning: A Natural and Efficient Approach to Image Set Classification," IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2012), 2012.

7. 吴毅，南京信息工程大学

Poster 9: Y. Wu, J. Lim, and M. H. Yang, "Online Object Tracking: A Benchmark," in IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2013

8. 夏桂松，武汉大学

Poster 10 : G.-S. Xia, J. Delon and Y. Gousseau. "Accurate Junction Detection and Characterization in Natural Images", International Journal of Computer Vision, Vol. 106, No.1, pp: 31-56, 2014.

9. 钟必能，华侨大学（合并一份）

Poster 11 : Bineng Zhong, Hongxun Yao, Sheng Chen, Rongrong Ji, Tat-Jun Chin, Hanzi Wang. Visual Tracking via Weakly Supervised Learning from Multiple Imperfect Oracles. Elsevier Pattern Recognition, PR 2014, 47(3), pp. 1395-1410.

10. 崔振，华侨大学/中科院计算所

Poster 12: Zhen Cui, Wen Li, Dong Xu, Shiguang Shan, and Xilin Chen. Fusing Robust Face Region Descriptors via Multiple Metric Learning for Face Recognition in the Wild, CVPR, 2013.

11. 阚美娜，中国科学院计算技术研究所

Poster 13 : Meina Kan, Shiguang Shan, Hong Chang, Xilin Chen. Stacked Progressive Auto-Encoders (SPA-E) for Face Recognition Across Poses. IEEE Conference on Computer Vision and Pattern Recognition (CVPR, accepted), 2014.

12. 程洪，电子科技大学

Poster 14: H. Cheng, Z. Liu, L. Hou, J. Yang, Sparsity Induced Similarity Measure and Its Applications, TCSVT, Apr. 2012.

13. 常虹，中科院计算技术研究所

Poster 15: Deming Zhai, Hong Chang, Yi Zhen, Xianming Liu, Xilin Chen, Wen Gao. Parametric Local Multimodal Hashing for Cross-view Similarity Search. 23rd International Joint Conference on Artificial Intelligence (IJCAI), 2013.

14. 王甦菁, 中国科学院心理研究所

Poster 16: Su-Jing Wang, Shuicheng Yan, Jian Yang, Chun-Guang Zhou, Xiaolan Fu. A General Exponential Framework for Dimensionality Reduction. IEEE Transactions on Image Processing. 2014. 23 (2) : 920-930.

15. 孙鑫, 中国海洋大学

Poster 17: Xin Sun, Yanheng Liu, et al.. Feature evaluation and selection with cooperative game theory, Pattern Recognition, 45(8), 2012: 2992-3002.

16. 仲国强, 中国海洋大学

Poster 18: Guoqiang Zhong, Cheng-Lin Liu: Error-correcting output codes based ensemble feature extraction, Pattern Recognition, 2013.

Poster 19: Guoqiang Zhong, Mohamed Cheriet: Adaptive Error-Correcting Output Codes, IJCAI, 2013

17. 姚聪, 华中科技大学

Poster 20: Cong Yao, Xiang Bai, Baoguang Shi, Wenyu Liu. Strokelets: A Learned Multi-Scale Representation for Scene Text Recognition, CVPR 2014

18. 王栋, 大连理工大学

Poster 21: Dong Wang (王栋), Huchuan Lu (卢湖川), Visual Tracking via Probability Continuous Outlier Model, CVPR 2014

19. 王琦, 西北工业大学

Poster 22: Qi Wang, Yuan Yuan, and Pingkun Yan, "Visual Saliency by Selective Contrast," IEEE Transactions on Circuits and Systems for Video Technology (IEEE), vol. 23, no. 7, pp. 1150-1155, 2013.

Poster 23: Qi Wang, Guokang Zhu, and Yuan Yuan, "Multi-spectral Dataset and Its Application in Saliency Detection," Computer Vision and Image Understanding (Elsevier), vol. 117, no. 12, pp.1748-1754, 2013.

20. 蹇木伟, 香港理工大学

Poster 24: Muwei Jian, Kin-Man Lam, Junyu Dong, "A Novel Face-Hallucination Scheme Based on Singular Value Decomposition," Pattern Recognition, vol. 46, issue 11, pp. 3091-3102, November 2013.

21. 刘日升, 大连理工大学

Poster 25: Risheng Liu, Junjie Cao, Zhouchen Lin and Shiguang Shan, Adaptive Partial Differential Equation Learning for Visual Saliency Detection, accepted by IEEE CVPR 2014, Oral

22. 胡瀚, 清华大学

Poster 26: Han Hu, Zhouchen Lin, Jianjiang Feng and Jie Zhou, Smooth Representation Clustering, CVPR, 2014

23. 冯伟, 天津大学

Poster 27: Wei Feng, Zhi-Qiang Liu, Liang Wan, Chi-Man Pun, Jianmin Jiang, A spectral-multiplicity-tolerant approach to robust graph matching, Pattern Recognition, vol. 46, no. 10, pp. 2819-2829, 2013.

Poster 28 : Liang Li, Wei Feng\*, Liang Wan, Jiawan Zhang, Maximum cohesive grid of superpixels for fast object localization, in CVPR 2013.

Poster 29: Qiang Zhao, Liang Wan, Wei Feng, Jiawan Zhang, and Tien-Tsin Wong, Cube2Video: Navigate between cubic panoramas in real-time, IEEE Transactions on Multimedia, vol. 15, no. 8, pp. 1745-1754, 2013.

24. 屠可伟, 上海科技大学

Poster 30: Kewei Tu, Maria Pavlovskaja and Song-Chun Zhu, "Unsupervised Structure Learning of Stochastic And-Or Grammars". In Advances in Neural Information Processing Systems 26 (NIPS 2013), December 5-10, 2013.

25. 方玉明, 江西财经大学

Poster 31 : Yuming Fang( 方 玉 明 ), Junle Wang, Narwaria, Manish, Le Callet Patrick, and Weisi Lin, 'Saliency Detection for Stereoscopic Images', IEEE Transactions on Image Processing, DOI: 10.1109/TIP.2014.2305100, In Press, 2014.

26. 李永杰，电子科技大学

Poster 32: Kaifu Yang, Shaobing Gao, Chaoyi Li, Yongjie Li. Efficient Color Boundary Detection with Color-opponent Mechanism, CVPR, 2013.

Poster 33: Shaobing Gao, Kaifu Yang, Chaoyi Li, Yongjie Li. A Color Constancy Model with Double-Opponent Mechanisms, ICCV, 2013.

27. 金连文，华南理工大学

Poster 34: Lingyu Liang, Lianwen Jin, Xuelong Li, Facial Skin Beautification Using Adaptive Region-Aware Masks, IEEE Transactions on Cybernetics, accept on March 4, 2014. DOI: 10.1109/TCYB.2014.2311033

28. 杨巨成，天津科技大学

Poster 35: JuCheng Yang\*, Naixue Xiong, Athanasios V. Vasilakos, "Two-stage Enhancement Scheme for Low-quality Fingerprint Images by Learning from the Image", IEEE Transactions on Human-Machine Systems( IEEE Transactions on Man, Machine, and Cybernetics- Part C), vol.43, no.2, pp.235-248, 2013.

29. 陶文兵，华中科技大学

Poster 36: Wenbing Tao, Kun Sun, Asymmetrical Gauss Mixture Models for Point Sets Matching, CVPR 2014

30. 马波，北京理工大学

Poster 37: Yuwei Wu, Bo Ma, Min Yang, Yunde Jia, and Jian Zhang, Metric learning based Structural Appearance Model for Robust Visual Tracking IEEE Transactions on Circuits and Systems for Video Technology, 2013, Accepted

31. 庄连生，中国科学技术大学

Poster 38: Liansheng Zhuang, Allen Yang, Zihan Zhou, Shankar Sastry, and Yi Ma Single-Sample Face Recognition with Image Corruption and Misalignment via Sparse IlliminationTransfer: CVPR 2013

32. 杨敬钰，天津大学

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## 附件二、VLASE2014 DEMOS

### Demo 1: 动态人脸识别演示系统

作者：中科院计算所 VIPL（视觉信息处理与学习课题组）

简介：该系统可实现实时的多姿态人脸检测、面部特征点定位与跟踪、在线人脸注册与动态识别等功能。

### Demo 2: 3D 连续手势识别系统

作者：程洪，罗军，杨路（电子科技大学）

简介：本系统能够从任意的姿势序列中检测出与模板姿势相匹配的姿势序列段，克服了传统动态时间规整算法检测姿势需要预先知道姿势的起始点和终止点的不足，使得整个姿势识别系统更加流畅自然。

### Demo 3: 3D 人体骨架提取系统

作者：程洪，杨路，叶果（电子科技大学）

简介：本系统是一种先进的自动提取人体骨骼数据的多媒体展示系统，利用 Kinect 提供的深度数据，对骨骼进行检测识别，可广泛应用于游戏、交互控制等领域。

### Demo 4: Saliency Detection and Its Application in Image/Video Resizing

作者：王琦等（西北工业大学）

简介: Our demo shows the saliency detection results and its application in image/video resizing. Different from traditional methods, we focus on the high quality resizing.

### Demo 5: 个性化人脸自动美化系统

作者：金连文，梁凌宇，刘邓，许少杰，黎小凤等

简介: 本系统展示了基于自适应蒙版技术、图层分解及融合、平均脸数据驱动的人脸美化技术, 包括人脸形状美化、人脸肤色美化及人脸纹理美化。我们将展示基于 PC 机及基于云计算的两个实时演示系统。

#### Demo 6: 基于 Kinect 的空中手写及手势跟踪识别

作者: 张鑫, 华南理工大学

#### Demo 7: 微创手术中活体皮肤特征识别与跟踪

作者: 高路房, 福州鹿由软件科技有限公司

简介: Soft tissue tracking in dynamic surgical environment is currently a challenging problem for minimally invasive surgery (MIS) navigation. Tissue feature are usually embedded into spatial context. And spatial context information is often ignored in soft tissue tracking. We propose a novel framework for tracking soft tissue during MIS by using a soft tissue appearance online learning approach and spatial context estimation. Our approach performs an auxiliary feature selection by the linear correlation. It selects the auxiliary features which has same motion pattern with the target feature. By this, the position of the target feature can be estimated even when its appearance is changed or invisible. The results show that these novel approaches can be used to improve the performance of soft tissue tracking in dynamic surgical environments, resulting in very stable tracking results under challenging MIS conditions

#### Demo 8: 扑克牌识别系统

作者: 石志君, 青岛瑞昇数码有限公司