ICALIP2012

2012 International Conference on Audio, Language and Image Processing

PROGRAM GUIDE

July 16-18, 2012
Hua Ting Hotel, Shanghai, China

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W-L3   Language and Speech Processing (Papers#:10)
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15:30-15:45 Coffee Break

15:45-17:45 Oral Session (31 papers in 3 rooms)
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W-L6   Language and Speech Processing (Papers#:7)
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Message from the Conference Chairs

On behalf of the organization committee, we are most delighted to welcome you to join us at 2012 International Conference on Audio, Language and Image Processing (ICALIP2012) to be held at Shanghai, China on July 16 through July 18, 2012. The conference is co-organized by IEEE CIS Shanghai Chapter, Asia-Pacific Signal and Information Processing Association, IET Shanghai Local Network, Shanghai University, Tongji University, Fudan University and Shanghai Jiao Tong University.

As one of the most important academic events in the region, ICALIP2012 aims to provide a unique forum for researchers, engineers and educators interested in audio, language and image processing to learn about recent progresses, to address related challenges and to develop new methods, applications and systems.

ICALIP2012 is featured with five world-class plenary lectures and 21 well-organized sessions (oral and poster) in seven topics, namely, Audio and Music Processing, Language and Speech Processing, Image Processing, Computer Graphic and Virtual Reality, Bio-informatics, Remote Sensing and GIS, Multimedia SOC Design. Five keynote speeches are arranged in two half-day plenary sessions with titled as "Advanced Computational Imaging: Super-Resolution and 3D Acquisition Using Active Illumination", "Data-Driven Analysis and Fusion of Medical Imaging Data", "Touring from Our Research on Video Surveillance to Super-resolution Videos and 3D Videos", "Real Time Dynamics in Comprehensive 3D Environments Assisted with Image Based Solution", and "Humanistic Intelligence System - Multi-core Pattern Recognition Processor with Brain Mimicking Mixed Mode Intelligence Circuits", respectively. Also the Smart City Forum wth three keynote speeches and Industry Forum with six keynote speeches are arranged together with ICALIP2012 in the second day and third day.

Shanghai is the most populous city in China and also one of the largest urban areas in the world, with a population of over 20 million people in its metropolitan area. Located on China's east coast at the mouth of the Yangtze River, the city is administered as a municipality with province-level status. Shanghai is also China's largest economic comprehensive industrial base, technology center, and a famous historical and cultural city. The municipal government of Shanghai City has been very supportive to ICALIP2012 from many aspects since the very beginning of the preparation of the conference. The venue of the conference is Hua-Ting Hotel & Towers located in the heart of the city's booming commercial centre,

Xu-Jia Hui. Conveniently situated with excellent transport links, the hotel includes the metro service and the city ring road located right outside the main entrance. ICALIP2012 also offers a number of social and networking events for the conference attendees and their accompanying persons including Welcome Reception, Banquet and culture-show performed by local artists.

As we conclude this message, we would like to thank all members of International Program Committee, Organization Committee and Steering Committee of the conference for their strong support, tireless effort and efficient coordination. We are deeply indebted to the reviewers for their timely and insightful reviews on all the submitted manuscripts. We also wish to thank Dr. Rui Wang, Mr. Haifeng Yu and Mr. Libing Lu for their great effort to edit this Program Guide. We hope that you not only enjoy the technical programs of ICALIP2012 but also experience productive social and networking events. We wish you a memorable international conference in Shanghai.

Sadaoki Furui, Wanggen Wan, Fa-Long Luo, Kamisetty R. Rao

General Co-Chairs
ICALIP2012

Location and Venue

The conference will be held at Hua-Ting Hotel(5-star Hotel) in Shanghai of China. The location can be found in the following map.

Venue Address:
1200 Caoxi Road North, Xuhui Area, Shanghai, China, 200030

The ways to reach the venue:
Taxi services are available:
From Pu-Dong International Airport   to Venue, 48km, approximate 22US$
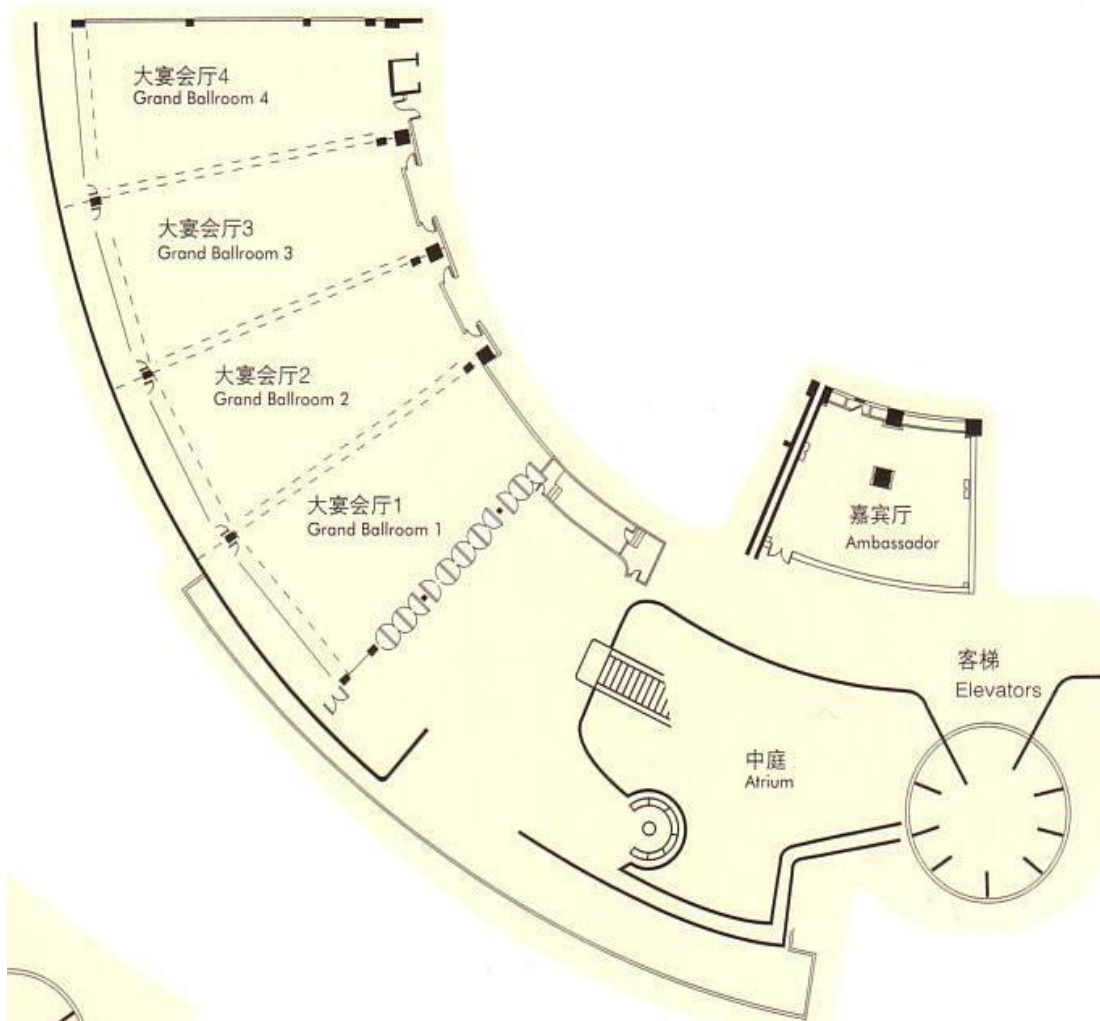From Hong-Qiao International Airport to Venue, 12km, approximate 5US$
From Shanghai Railway Station to Venue, 12km, approximate 5US$
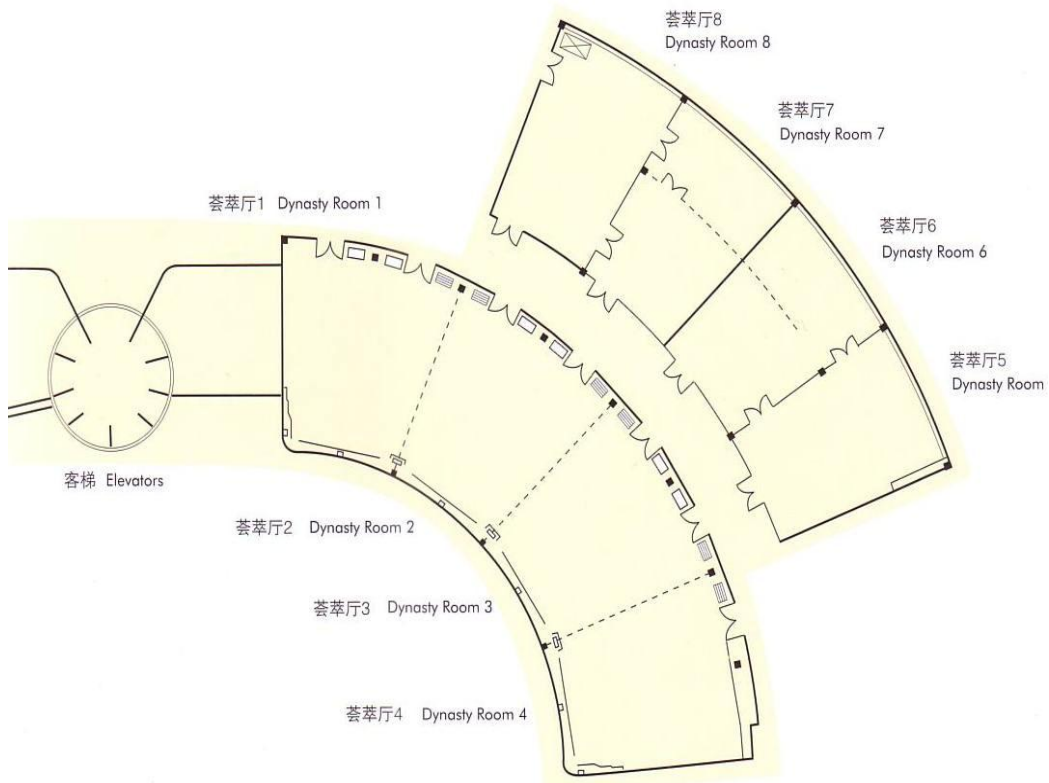From Shanghai South Railway Station to Venue, 3km, approximate 2US$

Subway line 1 is available, nearby the Shanghai Gymnasium station

Hua Ting Hotel Map

大宴会厅、嘉宾厅平面图
GRAND BALLROOM、AMBASSADOR HALL FLOOR PLANS

大宴会厅4
Grand Ballroom 4

大宴会厅3
Grand Ballroom 3

大宴会厅2
Grand Ballroom 2

大宴会厅1
Grand Ballroom 1

嘉宾厅
Ambassador

客梯
Elevators

中庭
Atrium

荟萃厅平面图　DYNASTY ROOM FLOOR PLANS

荟萃厅8
Dynasty Room 8

荟萃厅7
Dynasty Room 7

荟萃厅1　Dynasty Room 1

荟萃厅6
Dynasty Room 6

荟萃厅5
Dynasty Room

客梯　Elevators

荟萃厅2　Dynasty Room 2

荟萃厅3　Dynasty Room 3

荟萃厅4　Dynasty Room 4

舞台

荟景厅
PANORAMA ROOM

ICALIP 2012 Keynote Speeches

Keynote Speech 1

Title: Advanced Computational Imaging: Super-Resolution and 3D Acquisition Using Active Illumination

Keynote Speaker: Panos Papamichalis, Department of Electrical Engineering, Southern Methodist University, USA

Abstract:
Scenes captured by a digital camera are subject to constraints imposed by the camera optics. The camera optics limit the bandwidth of the analog image projected on the sensor, because of diffraction and optical aberrations. Processing of images captured under carefully designed illumination patterns allows recovery of frequencies exceeding the optical bandwidth. The ability to achieve improved optical resolution using strictly computational means is of significant interest to the optical imaging community.

The mathematical formulation underlying the use of Active Illumination in Optical Super-Resolution identifies constraints on the position of the camera and the illumination source, and also guides the selection of the illuminating pattern. The framework also reveals the possibility of recovering depth (3D) information with the same set-up. The findings discussed in this talk can help design imaging systems that feature improved optical resolution and 3D acquisition capabilities.

Biography:

Professor Panos Papamichalis has been a Professor of the Electrical Engineering Department at SMU since August 2003. Before that, he spent 23 year with Texas Instruments (TI), between 1980 and 2003, where he became a TI Fellow.

While at TI, Dr. Papamichalis served as the Director of Texas Instruments' Imaging & Audio Lab within the DSP R&D Center in Dallas, and as the Director of TI's Tsukuba R&D Center, in Tsukuba, Japan. From 1984 to 1990, he was a Senior Member of Technical Staff at the Texas Instruments DSP Applications group in Houston, Texas. He was responsible for developing applications of DSP algorithms on programmable DSP processors. He has also served as an adjunct professor at the University of Texas at Dallas, and at Rice University in Houston.

Dr. Papamichalis is an IEEE Fellow. He served as the 2000-2001 President of the IEEE Signal Processing Society. He was the General Chairman of the 1987 International Conference on Acoustics, Speech, and Signal Processing in Dallas, and was selected as a distinguished lecturer of the IEEE ASSP Society of 1989. Between 1990-96 he served as Vice President-Conferences of the IEEE Signal Processing Society. In 1996, he received Signal

Processing Society's Meritorious Service Award, and in 2000 he received the IEEE Third Millennium Medal.

He is the author of the book "Practical Approaches to Speech Coding", (Prentice-Hall, 1987) and the editor of volumes 2 and 3 of "Digital Signal Processing Applications with the TMS320 Family" (Prentice-Hall, 1990). Dr. Papamichalis holds four patents in the area of speech coding, and has published many papers on speech processing and digital signal processing. He is a member of Sigma Xi, HKN, and the Technical Chamber of Greece.

Keynote Speech 2

Title: Touring from our Research on Video Surveillance to Super-resolution Videos and 3D Videos

Keynote Speaker: Wan-Chi Siu, Department of Electronic & Information Engineering, The Hong Kong Polytechnic University, China

Abstract:
A modern digital monitoring system usually involves a large number of hi-tech components. These include video coding (using such as H.264 codec or HEVC in the future), video recording, object recognition, object tracking, etc. In this talk we will start with highlighting some of our consultancy works on video surveillance, which reveals the need for a further hi-tech development of videos. We will than introduce some of our research work on information reuse techniques for motion estimation in video coding and re-encoding applications. Our strategy on research relating academic and industrial research will also be discussed. Moving towards high-resolution videos is certainly a trend, but adding new features, such as mosaicing, multi-view and 3D videos are yet other dimensions of hi-tech development. Fruitful demonstrations and illustrations will be included, and the presentation will end with brief ideas on new trends and future applications.

Biography:

Professor Wan-Chi Siu (AP(HK) PolyU 1975, MPhil CUHK 1977, PhD Imperial College 1984) joined the Hong Kong Polytechnic University as a lecturer in 1980. He has become Chair Professor in the Department of Electronic and Information Engineering since 1992, and he is also Director of the Centre for Signal Processing. Prof. Siu was Head (EIE) and subsequently Dean of Engineering Faculty between 1994 and 2002 of the same university. Professor Siu is an expert in Digital Signal Processing, specializing in fast algorithms, video coding and pattern recognition. He has published 400 research papers, over 170 of which appeared in international journals, such as IEEE Transactions on Image Processing. His works on motion estimation, transcoding and DCT algorithms are well received by academic peers with high citations, and he has an overall h-index score of 26 (by Google Scholar). Furthermore, many of his research works have also been ported into industrial uses for hi-tech development in Hong Kong.

Prof. Siu is a Vice President, Chairman of Conference Board and a core member of the Board of Governors of the IEEE Signal Processing Society (2012–2014). He is/was guest editor, associate editor and member of editorial boards of a number of journals, including IEEE

Transactions on Circuits and Systems, IEEE Transactions on Image Processing, and Journal of VLSI Signal Processing Systems for Signal, Image, Video Technology. He is a very popular lecturing staff member within the University, while outside the University he has been a keynote speaker of over 10 international/national conferences in the recent 10 years. He received many awards, such as the Best Paper Award (1995), Distinguished Presenter Award (1997), IEEE Third Millennium Medal (2000), Best Teacher Award (2003), Outstanding Award in Research (2003) and Honorable Mention Winner Award (2004). He is the organizer of many world-class international conferences, for example ISCAS'1997 (as Technical Program Co-Chair), ICASSP'2003 (as the General Chair) and ICIP'2010 (as the General Chair). He is the chairman of many assessment panels and committees for professional bodies. In particular, in 1993/94, he chaired the first Engineering and Information Technology Panel of the Research Assessment Exercise (RAE) to initiate some milestone basic measures on research quality and to assess the research quality of academia in universities, which gives a long-term impact to the development of quality research in Hong Kong.

Keynote Speech 3

Title: Data-Driven Analysis and Fusion of Medical Imaging Data

Keynote Speaker: Tulay Adali, Department of Computer Science and Electrical Engineering, University of Maryland Baltimore County (UMBC), USA

Abstract:
Data-driven methods such as independent component analysis (ICA) have proven quite effective for the analysis of functional magnetic resonance (fMRI) data and for discovering associations between fMRI and other medical imaging data types such as electroencephalography (EEG) and structural MRI data. Without imposing strong modeling assumptions, these methods efficiently take advantage of the multivariate nature of fMRI data and are particularly attractive for use in cognitive paradigms where detailed a priori models of brain activity are not available.

This talk reviews major data-driven methods that have been successfully applied to fMRI analysis and fusion, and presents examples of their successful application for studying brain function in both healthy individuals and those suffering from mental disorders such as schizophrenia.

Biography:

Professor Tulay Adali received the Ph.D. degree in electrical engineering from North Carolina State University, Raleigh, in 1992 and joined the faculty at the University of Maryland Baltimore County (UMBC), Baltimore, the same year. She is currently a professor in the Department of Computer Science and Electrical Engineering at UMBC. She worked in the organization of a number of international conferences and workshops including the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), the IEEE International Workshop on Neural Networks for Signal Processing (NNSP), and the IEEE International Workshops on Machine Learning for Signal Processing (MLSP). She was the general co-chair for the NNSP workshops 2001--2003 and the technical chair of the MLSP workshops 2004--2006. She is the past chair and current member of the MLSP Technical

Committee, and is serving on the IEEE publications board and the IEEE Signal Processing Society conference board. Her research interests are in the areas of statistical signal processing, machine learning for signal processing, biomedical data analysis (functional MRI, MRI, PET, CR, ECG, and EEG), bioinformatics, and signal processing for optical communications. Dr. Adali is the recipient of a 1997 National Science Foundation CAREER Award.

Keynote Speech 4

Title: Real Time Dynamics in Comprehensive 3D Environments Assisted with Image Based Solution

Keynote Speaker: Enhua Wu, Faculty of Science and Technology, University of Macau & State Key Lab of Computer Science, Chinese Academy of Sciences, China

Abstract:
At present, real time processing on the modeling and rendering of comprehensive dynamic environments becomes crucial in variety of applications such as computer simulation, virtual reality, computer games etc. The drastic evolvement of the processing power through the graphics hardware in recent years has provided promising solution to the problem. However in handling large size of environments, or in particular for the environments involved with highly comprehensive objects, real time processing is still a big challenge.

In this talk, the requirement and present challenge in the real time processing of large size or highly complex environments will be introduced, and as one of the solutions, the image-based approach will be introduced in detail, with the algorithms and testing results for the large size and/or comprehensive environments like the natural environments and complex subjects presented. The solution is image-based, but rather than making the normal 3d reconstruction from image/video more or less based on computer vision solution like in the augmented reality applications, we will directly compose the environments from the source model expressed by image/video or the synthesized images.

Biography:

Prof. Enhua Wu completed his BSc study in 1970 from Tsinghua University, Beijing and received his PhD degree from Department of Computer Science, University of Manchester, UK in 1984. He has been working at the State Key Lab. of Computer Science (SKLCS), Institute of Software(IOS), Chinese Academy of Sciences since 1985, as a director of its Research Dept. of Fundamental Theory and Advanced Technology until 1998. He has been also invited as a full professor of University of Macau (UM) since 1997, and now the Associate Dean of the Faculty of Science and Technology in UM. In recent years, he has been invited to chair or co-chair various conferences like ACM VRST2010, CASA2011, ACM VRCAI2008-2011, and as a keynote speaker for CGIV2009, IEEE MINES2010, ACM VRST2010, ACM VRCAI2011 etc.. He is an Associate Editor-in-Chief of the Journal of Computer Science and Technology (Science Press and Springer) and the editorial board member of The Visual Computer (Springer), Computer Animation and Virtual World (John

Wiley), Inter. J. Image and Graphics (World Scientific), Inter. J. Virtual Reality(IPI Press), and Inter. J. Software and Informatics (Science Press). His main interests are Realistic Image Synthesis, Virtual Reality and Scientific Visualization.

Keynote Speech 5

Title: Humanistic Intelligence System-Multi-core Pattern Recognition Processor with Brain Mimicking Mixed Mode Intelligence Circuits

Kenote Speaker: Hoi-Jun Yoo, Korea Advanced Institute of Science and Technology (KAIST), Korea

Abstract:
Recently, heterogeneous multi-core architecture has been widely used for different kinds of parallel computing that require high throughput and energy efficient operation. In this presentation, human brain is mimicked as the model for the heterogeneous multicore-processor architecture, especially for pattern recognition, one of the most data/computation intensive applications in smartphone and mobile gadgets. The neuro-fuzzy intelligence circuits are integrated with multicore processor for low power and high speed operation. Analog-digital mixed mode neuro-fuzzy circuits are implemented for the multi-core processor to provide the 'attention' to the regions-of-interest in cluttered images for higher processing speed and recognition accuracy. Furthermore, learning ability of the neuro-fuzzy intelligence enables the processor to adapt to current tasks and environment for system robustness. Based on the intelligence circuits, several multi-core architectures have been presented with high throughput Network-on-Chip (NoC) and the low power techniques such as DVFS and clock gating. They are utilized with dynamic resource management (DRM) to tune hardware resource adaptively for varying tasks of pattern recognition. The proposed processors have been examined with evaluation systems including the autonomous robot, the car navigation, and the life-log device.

Biography:

Professor Hoi-Jun Yoo graduated from the Electronic Department of Seoul National University, Seoul, Korea, in 1983 and received the M.S. and Ph.D. degrees in electrical engineering from the Korea Advanced Institute of Science and Technology (KAIST), Daejeon, in 1985 and 1988, respectively.

From 1988 to 1990, he was with Bell Communications Research, Red Bank, NJ, In 1991, he became Manager of a DRAM design group at Hyundai Electronics. Since 1998, he has been the faculty of the Department of Electrical Engineering at KAIST. From 2003 to 2005, he was the full time Advisor to Minister of Korea Ministry of Information and Communication and National Project Manager for SoC and Computer. From 2010 to 2012, he has served the president of Korean Institute of Next Generation Computing. His current interests are high-speed and low-power Network on Chips, computer vision SoC, Body Area Networks, biomedical devices and circuits, and memory circuits and systems. He received "Korean engineer of the month" award on Dec. 2010, and national medal of "Order of Service Merit" for his contribution to Korean DRAM industry. Dr. Yoo has been co-recipients of Design

Award of ASP-DAC 2001, and Outstanding Design Awards of 2005, 2006, 2007, 2010, 2011 A-SSCC, Student Design Context Award of 2007, 2008, 2010, 2011 DAC/ISSCC. He has served as a member of the executive committee of ISSCC, Symposium on VLSI, and A-SSCC and the TPC chair of the A-SSCC 2008 and ISWC 2010, IEEE Fellow, IEEE Distinguished Lecturer('10-'11), and Far East Chair of ISSCC('10-'11).

Smart City Forum: Keynote Speech 1

Title: Daylight and Solar Energy Simulation at Urban Scale

Keynote Speaker: Benoit BECKERS, GSU (Urban Systems Engineering) Department, UTC (Compiègne University of Technology), France

Abstract:
World increasing urbanization, demands for energy saves and inquiries about the climatic heating have transformed the city into a physical problem of major concern. At the furthest point of this process, the architects have to follow building norms whose justifications are not only the immediate fulfillment of the client needs but also the general benefit of the citizens, i.e. in terms of greenhouse gas emission. However it is difficult to quantify these requirements in a dense and complex built environment. As a multi-physic and multi-scale system interacting with soil and atmosphere, the city remains a rather unknown object.

This presentation proposes a multidisciplinary and systemic approach related to specialties as different as meteorology, geography, architecture and urban systems engineering, throughout the essential problem of solar radiation.

The issue is considered as a whole, from the climatic data to the urban development strategies, showing how the new tools (second generation satellites, very large geometric models and technological improvement in the data acquisition) can be integrated in a course of action that will allow to obtain better quantification and control in order to transmit the useful information between the actors at macro (territory), meso (city) and micro (building) scales. These actors will so get the opportunity to better collaborate in the perspective of a sustainable and more hospitable city.

Biography:

Professor Benoit BECKERS has obtained an Engineering Degree in Physics from ULG (University of Liège) in 1992. In 1993, he joined the Superior Architecture School of the Polytechnic University of Catalonia (UPC) in Barcelona, where he started personal researches on the following subjects: concert hall acoustics; daylight and solar radiation in the architectural and urban projects; geometrical methods in numerical simulation; waves perception in their physical and cultural environment. In 2005, he presented a doctoral thesis on the subject: "Sensitive Geometry". In 2008, he moved to France as associate professor (enseignant chercheur contractuel).

Benoit Beckers is the originator and one of the main designers of the "Heliodon" software devoted to the daylight and solar radiation simulation in architecture. This activity is

presented on the web site: www.heliodon.net

Today, his teaching activities include lectures in Compiègne, Barcelona and in the "École de Technologie Supérieure" (ÉTS), in Montréal. With the teaching courses "Lighting ambiances and environment" and "Urban thermal energy" in UTC. "Space and ambiance in the architecture", in UPC. "Urban ecosystems", in collaboration with ÉTS.

Since 2009, he has been supervising PhD students (currently four). Their subjects correspond to the priorities of the research group Avenues-GSU initiated in his Department. They deal with solar radiation simulation in the architectural project, energetic efficiency applied to important housing stocks with a long term (2050) perspective, renewable energy potential at the scale of France and urban solar potential optimization. In 2010, he organized an international workshop about "Solar Energy at Urban Scale", presented on the web site: www.utc.fr/seus. In 2011, he presented his "habilitation to supervise researches" (the HDR French diploma) and in 2012 he edited the book "Solar Energy at Urban Scale", ISTE- John Wiley, with 18 contributors.

Smart City Forum: Keynote Speech 2

Title: Multi-Modality Urban Scene Modeling

Keynote Speaker: Ye Duan, Department of Computer Science, University of Missouri at Columbia, USA

Abstract:
3D urban scene modeling is very important for applications such as urban planning, construction, environment, communication, transportation, energy and property management, tourism, and virtual tours of cities, as well as security surveillance and emergency planning. In this talk we will present our recent work in 3D urban scene modeling from multiple imaging modalities such as airborne and terrestrial LIDAR, airborne and ground based video and images with a focus on 3D reconstruction, 3D segmentation, and 3D compression. We will also discuss our recent work in virtual navigation of the interior spaces of urban structures, rock geo-mechanics analysis for highway safety, etc.

Biography:

Professor Ye Duan is an Associate Professor of Computer Science at University of Missouri-Columbia. He is the Director of the Center for Urban Safety in the College Engineering at University of Missouri-Columbia. He is the Director of the Computer Graphics and Image Understanding Laboratory at the Department of Computer Science at University of Missouri-Columbia. He received his B.A. degree in Mathematics from Peking University in 1991. He received his M.S. degree in Mathematics from Utah State University in 1996. He received his M.S. and Ph.D. degree in Computer Science from the State University of New York at Stony Brook in 1998 and 2003. From September 2003 to August 2009, he was an Assistant Professor of Computer Science at University of Missouri-Columbia. He was a recipient of The Brain and Behavior Research Foundation Young Investigator Award. Currently he is an Editorial Board Member of the International Journal of Functional Informatics and Personalised Medicine. His research interests include Computer Graphics and

Visualization, Biomedical Imaging and Computer Vision, Geometric and Physics-based Modeling, Virtual Reality and Human-Computer Interaction, Computer Animation and Simulation.

Smart City Forum: Keynote Speech 3

Title: Energy Efficient Heterogeneous Data Center Servers for Green and Smart Cities

Keynote Speaker: Yajun Ha, Department of Electrical & Computer Engineering, National University of Singapore, Singapore
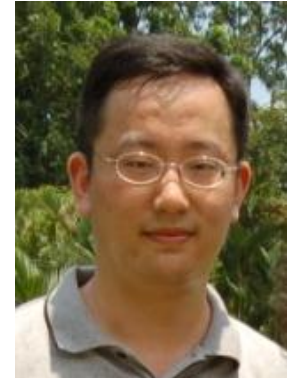
Abstract:
Data centers are an integral part of smart cities, but they're becoming increasingly more expensive to power and cool. Some large data centers draw as much energy as a small town and these figures continue to increase. By some estimates, the cost of running a data center may very well exceed the cost of buying one. As a result, green data centers are increasingly necessary for future cities.

Addressing power consumption at the compute level pays rich dividends. Every compute watt reduced has a multiplied effect of three. For every watt saved in computation, two additional watts are saved — one watt in power conversion and one watt in cooling. Consequently, big power savings can be gained from small percentages in processor power savings.

The maximum gains in power savings are obtained when the architecture of the processor is matched as closely as possible to the application running on it. However, most current servers offer homogeneous multi-processor platforms leading to huge power consumption. As a result, energy consumption of data center servers will be greatly saved if the granularity of the computing matches that of the pay load.

In this talk, we introduce the development of a heterogeneous multi-processor architecture targeted towards servers in data centers. Our target architecture will have processors of different performance-power trade-offs including some processors operating at lower voltage. In addition to that it will have some reconfigurable logic, some application specific processors and some ASIC components in it.

Having heterogeneous architecture would allow processors of different granularities to be integrated in one platform and give the middleware/operating system the opportunity to match the right processor or computing element for the right pay load job. For example, for a bit level encryption/decryption payload, it is extremely inefficient to execute them on a word level homogenous processor, but it can be extremely efficient to execute them on a fine-grain bit level FPGA platform in terms of power and timing. Heterogeneous server architecture makes this perfect matching possible, thus greatly saves the server computing energy as it is much more efficient.

Biography:

Dr.Yajun Ha received the B.S. degree in Electrical Engineering from Zhejiang University, China, in 1996, the M.Eng. degree in Electrical Engineering from National University of Singapore, in 1999, and the Ph.D. degree in Electrical Engineering from Katholieke Universiteit Leuven (KULeuven), Belgium in February 2004.

From 1996 to 1997, he was a Research Engineer in the Shanghai Aerospace Bureau, Shanghai, China. From January 1999 to February 2004, he worked as a researcher at the Inter-University MicroElectronics Center (IMEC) in Leuven, Belgium. Since February 2004, he has been with the Dept. of Electrical and Computer Engineering at National University of Singapore, where he is currently an Assistant Professor.

His research interests are in the general area of embedded computing (VLSI) architecture and design methodologies, with the special focus on reconfigurable computing. He has published around 60 journal/conference papers on these topics.

He has served a number of positions in the professional communities. He serves as the Associate Editor for the IEEE Transactions on Circuits & Systems II (2011-2013) and the Journal of Low Power Electronics (Since 2009). He serves as the General Co-Chair of ASP-DAC 2014; Program Co-Chair for FPT 2010; Chair of the Singapore Chapter of the IEEE Circuits and Systems (CAS) Society (2011 and 2012); Member of ASP-DAC Steering Committee; Member of IEEE CAS VLSI and Applications Technical Committee. He is the Program Committee Member for a number of well-known conferences in the fields of embedded systems and FPGAs, such as DATE, ASP-DAC, FPL, FPT, RAW, ARC and ERSA. He served as an external proposal reviewer for the Netherlands Science Foundation (2007) and the Qatar National Research Fund (2009, 2012). He was an Expert Group Member of Chinese National Electronic Design Contest (NUEDC) - Embedded System Design Invitational Contest (2006, 2008 and 2010). He is currently a Senior Member of IEEE.

Industry Forum: Keynote Speech 1

Title: Green Future of Communication Networks: Technology and Practice

Keynote Speaker: Shunqing Zhang, Huawei Technologies Co., Ltd., China

Abstract:
Due to the explosive traffic amount generated by smart devices, the energy consumption becomes the killing factor for the future evolution of communication networks. It has been predicted that the information and communication technology (ICT) industry will be responsible for 4% of the total CO_2 emission by the year 2020. Hence, in this talk, we shall briefly introduce the global demand for the green evolution and the recent research efforts, including the mobile VCE green radio project, the Energy Aware Radio and neTwork tecHnologies (EARTH) project as well as the GreenTouch consortium. In addition, the recent activities in the theoretical research and industrial product development will also be introduced to facilitate the future green evolution. Together with other worldwide partners, we shall make it real to enrich the green future for communication networks.

Industry Forum: Keynote Speech 2

Title: The Application of PTN Technology in Building the Backbone Network of Smart City

Keynote Speaker: Wei Zhou, the Deputy General Manager of Shanghai Information Network Co.,Ltd., China

Abstract:
The metropolitan area network, which carries high quality leased lines for financial agencies, governmental organizations, research and development institutions and enterprises, acts as an important role in Smart City development. The backbone network technology has evolved from DDN, ATM, and CE to PTN due to technological advancement and increasing requirements by customers. With MPLS-TP as the core, PTN will meet future network quality and transmission requirements. In this presentation, the characteristics and the key technologies of PTN are introduced. Typical applications of PTN technology in building the Smart City process, with real cases in financial institutions, governmental organizations and data centers will also be illustrated.

Industry Forum: Keynote Speech 3

Title: Construction of Smart City: Shanghai Integrated Traffic Information Platform

Keynote Speaker: Yang Zhang, Shanghai Municipal Transportation Information Center, China

Abstract:
The lecture introduces the development of transportation informationization in Shanghai through the construction of Shanghai Integrated Transportation Information Platform (SITIP). The core concept of SITIP contains its goal, service object, and guiding thought for development. After providing the general architecture of the platform, three main parts including road transportation, public transportation, and inter-city transportation are shown through kinds of figures in detail. Finally, its successful application during Shanghai Expo 2010 is described, which contains the study and distribution of Dr. Zhang's daily expo visitor volume forecasts.

Industry Forum: Keynote Speech 4

Title: Advance in Programming Tools for High-Performance Chips and Reusable Designs

Keynote Speaker: Ching Ma, Data I/O Corporation, USA

Abstract:
Billions of devices would be programmed every year to enable people's daily life communication convenience and industrial application. With semiconductor process

advancement, the process node has come down to 20nm: such technology has fundamentally posed the challenges to not only semiconductor manufacturing industrial but also to programming industrial where data loss through programming will be inevitable. All the devices would have to be programmed on board so that data retention could be assured without going through high temperature solder reflow process. How to enable the interface for thousands of hardware architecture with in-house IP design security concern would require every company to do the programming itself. How to support various application with always last minute request is crucial to their business success. Azido software has been introduced to support all the software and hardware engineers to pick up programming knowledge quickly and design their own interface to perform programming to their need. Furthermore Azido can be extended for all application which reusable cases are common. We will present the architecture of Azido software and various applications such as in programming and imaging processing.

Industry Forum: Keynote Speech 5

Title: Language Resources, the Accelerator of Human Language Technology

Keynote Speaker: Xianfeng Cheng, SpeechOcean Inc., China

Abstract:
As previous resource, Language resources are of crucial importance for research and development in whole Human Language Technologies such as of Speech, Text analyzing, Machine translating, Image Processing, Web searching and etc..
This presentation, by illustrating the current status of industrial huge language resources in fields of audio, Text, and image, tries to show up how the qualified language resource have contributed to Industrial R&D and market applications of Human Language Technologies (HLT) nowadays and how the rich qualified language resources create the great opportunity to accelerate the transferring of academic R&D HLT result to the global market and provide awareness and bridge-building for market take-up of research results and stimulate co-operation between academia and industry in the whole field of HLT for the next decade.

Industry Forum: Keynote Speech 6

Title: The Potential Role of Virtual Reality for the Construction of Intelligent Virtual Cities

Keynote Speaker: Zhaoguang Wang, Ph.d, Product Manager from GDI, Shanghai Graphic Design Information Co., Ltd, China

Abstract:
With the development of computer hardware and software technology，the virtual reality which is featured by immersion，interaction and imagination，has been playing a potential role in the construction of intelligent virtual cities. The concepts of virtual reality, some existing virtual city applications and the trend will be detailed in the presentation.

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Zhuangzhi Yan, *Shanghai University, China*

Xubo Yang, *Shanghai Jiaotong University, China*

Dunshan Yu, *Peking University, China*

Xiaoyang Zeng, *Fudan University, China*

ICALIP2012 Technical Program

Monday, July 16, 2012

08:30-09:00 Opening Ceremony
      Location: Grand Ballroom 1

09:00-09:20 Group Photo

09:20-10:05 Keynote Speech 1
      Advanced Computational Imaging: Super-Resolution and 3D Acquisition Using Active Illumination
      Panos Papamichalis, Department of Electrical Engineering, Southern Methodist University, USA
      Location: Grand Ballroom 1

10:05-10:20 Coffee Break

10:20-11:05 Keynote Speech 2
      Touring from our Research on Video Surveillance to Super-resolution Videos and 3D Videos
      Wan-Chi Siu, Department of Electronic & Information Engineering, The Hong Kong Polytechnic University, China
      Location: Grand Ballroom 1

11:05-11:50 Keynote Speech 3
      Data-Driven Analysis and Fusion of Medical Imaging Data
      Tulay Adali, Department of Computer Science and Electrical Engineering, University of Maryland Baltimore County (UMBC), USA
      Location: Grand Ballroom 1

12:00-13:30 Lunch

13:30-15:30 Oral Session (30 papers in 3 rooms)
13:30-17:30 Poster Session (14 papers)

M-L1   **Image Processing (Papers#:10)**
      Chairs: Tulay Adali, Department of Computer Science and Electrica Engineering, University of Maryland Baltimore County (UMBC), USA.
                A. Hilal, UMR STMR - LM2S - ICD, Université de Technologie de Troyes, 12 rue Marie Curie, BP 2060, 10010 Troyes Cedex, France
      Location: Dynasty Room 1

M-L1.1　　Local Histogram Modification Based Contrast Enhancement
Qiyuan Tian[1], Jiang Duan[2]
[1]Department of Electrical Engineering, Stanford University, USA
[2]School of Economic Information Engineering, Southwestern University of Finance and Economics, Chengdu, China

M-L1.2　　Automatic Understanding of Road Signs in Vehicular Active Night Vision System
Oded Perry, Yitzhak Yitzhaky
Ben-Gurion University of the Negev, Department of Electro-Optics Engineering. POB 653, Beer-Sheva 84105, Israel

M-L1.3　　Real Shape Inner Iris Boundary Segmentation Using Active Contour without Edges
A. Hilal[1,2], P. Beauseroy[1], B. Daya[2]
[1]UMR STMR - LM2S - ICD, Université de Technologie de Troyes, 12 rue Marie Curie, BP 2060, 10010 Troyes Cedex, France
[2]IUT, Université Libanaise, BP 813, Saida, Liban

M-L1.4　　Content Based Image Retrieval with Bin of Color Histogram
Van Hieu Vu[1], Quynh Nguyen Huu[2], Ha Nguyen Thi Thu[2]
[1]Haiphong University, Hanoi, Vietnam
[2]Electric Power University, Hanoi, Vietnam

M-L1.5　　Scaling and Rotating Texture Classification Based on JSEG Algorithm
Chih-Chia Yao, Ya-Yun Yu
Chaoyang University of Technology, Department of Computer Science and Information Engineering, Taichung , Taiwan

M-L1.6　　High Performance 2-D IDCT for Image/Video Decoding Based on FPGA
Junming Shan, Chunchun Chen, Eryan Yang
School of Communication and Information Engineering, Shanghai University, Shanghai, China

M-L1.7　　Hardware Solution of Real-time Depth Estimation Based on Stereo Vision
Li He-jian[1,2], Teng Guo-wei[1,2], Zhang Zhao-yang[1,2], An Ping[1,2], Ma Ran[1,2], Wang Jian-wei[1,2], Wu Fu-qiong[1,2]
[1]Key Laboratory of Advanced Display and System Application Ministry of Education, Shanghai 200072, China
[2]School of Communication and Information Engineering, Shanghai University, Shanghai 200072, China

M-L1.8　　Implementation of Efficient Line Detection with Oriented Hough Transform
Dongjin Fan, Hui Bi, Lidong Wang
National Computer Network Emergency Response Technical Team/Coordination Center of China, Beijing, China

M-L1.9　　Multiple Facade Images Matching for 3D Building Modeling
Yunsheng Zhang, Zhengrong Zou
School of Geosciences and Info-Physics, Central South University, 932 South Road Lushan, ChangSha, China

M-L1.10　Dangerous Object Recognition for Visual Surveillance
Peng Yao[1,2], Yongtian Wang[1], Can Chen[1], Dongdong Weng[1], Yue Liu[1]

[1]School of Optoelectronics, Beijing Institute of Technology, Beijing, China
[2]Science and Technology on Complex Land Systems Simulation Laboratory, Beijing, China

M-L2   **Image Processing (Papers#:10)**
         Chairs: Wan-Chi Siu, Department of Electronic & Information Engineering, The Hong Kong Polytechnic University, China.
                Oscar Au, Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong.
         Location: Dynasty Room 2

M-L2.1   Integrated Monitoring System for Fall Detection in Elderly
S. KHAWANDI[1], B. DAYA[2], P. CHAUVET[3]
[1]Phd student, University of Angers, Angers 49000-France
[2]Prof., Lebanese University, 813-Lebanon
[3]Prof., Lunam University, Angers 49008-France

M-L2.2   Automatic Object Detection and Matching Based on Proposed Signature
H. A. ELSALAMONY
Math Dept, Faculty of Science, Helwan University, Cairo, Egypt

M-L2.3   Image Compression Technique Utilizing Reference Points Coding with Threshold Values
Yi-Fei Tan, Wooi-Nee Tan
Faculty of Engineering, Multimedia University, Jalan Multimedia, 63100 Cyberjaya, Selangor, Malaysia.

M-L2.4   Mutual Information Based Image Registration for MRI and CT SCAN Brain Images
Mehfuza.S.Holia[1], V.K. Thakar[2]
[1]Departement of Electronics, B.V.M Engineering College,Vallabh Vidyanagar, India
[2]A.D.Patel Institute of Technology, Vallabh Vidyanagar, India.

M-L2.5   Digital Photo Album Compression based on Global Motion Compensation and Intra/Inter Prediction
Oscar Au[1,2] , Sijin Li[2], Ruobing Zou[2], Wei Dai[2], Lin Sun[2]
[1]Tongji University, Shanghai, China
[2]Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong

M-L2.6   An Adaptive Corner Detecting for Real-Time Applications
Yuanxiu Xing[1, 2], Dengyi Zhang[1], Jianhui Zhao[1], Feng Liu[1]
[1]School of Computer, Wuhan University, Wuhan, Hubei, P.R.China, 430072
[2]School of Science, Wuhan University of Science and Technology, Whhan, Hubei, P.R.China, 430081

M-L2.7   Abnormal Behavior Analysis Using LDA
Haixian Lu, Li Guo, Shu Gui, Jinsheng Xie
Department of Electronic Science and Technology, USTC, Hefei, 230027, China

M-L2.8 Point Correspondence by Matching Scaled Invariants

Jianqin Qu[1], Leiguang Gong[2], Chen Huang[3], Ruoyu Fang[3]
[1]College of Computer Science, Jilin University, Changchun, Jilin 130012, P.R. China
[2]Watson Research Center, IBM, 19 Skyline Dr. , Hawthorne, NY 10532, USA
[3]College of Engineering, Shantou University, Shantou, Guangdong 515063, P.R.China

M-L2.9 Accurate Face Detection by Combining Multiple Classifiers Using Locally Assembled Histograms of Oriented Gradients

Bo Han,Yupin Luo
Tsinghua National Laboratory for Information Science and Technology, Department of Automation, Tsinghua University, Beijing 100084, China

M-L2.10 Navigation Image Matching Based on Two-level Keypoints

Wang Yi[1,2]
[1]Tsinghua National Laboratory for Information Science and Technology (TNList) , Tsinghua University, Beijing 100084, China
[2]Department of Automation, Tsinghua University, Beijing 100084, China

M-L3 **Image Processing (Papers#:10)**
Chairs: Ye Duan, Department of Computer Science, University of Missouri at Columbia, USA.
Alfred Tan, Knowledge Transfer Office Hong Kong Baptist University Kowloon Tong, Kowloon, Hong Kong SAR.
Location: Dynasty Room 3

M-L3.1 An Improved Method for Color Images Enhancement Considering HVS

Oscar C.Au[1,2], Lin SUN[2], Ruobing Zou[2], Wei Dai[2], Sijin Li[2]
[1]Tongji University, Shanghai, China
[2]Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong

M-L3.2 Improving Mobile Color 2D-Barcode JPEG Image Readability Using DCT Coefficient Distributions

Alfred Keng T.Tan[1], Douglas Chai[2]
[1]Knowledge Transfer Office Hong Kong Baptist University Kowloon Tong, Kowloon, Hong Kong SAR
[2]School of Engineering Edith Cowan University Joondalup, WA 6027, Australia

M-L3.3 Novel Weight Allocation Technique For Image Retrieval Based On Higher Order Colour Moments and CCM Texture Features.

Dipti Jadhav, Gargi Phadke, Satish Devane
Ramrao Adik Institute of Technology, Nerul, Navi Mumbai 400 706, India

M-L3.4 An Overview of Night Vision Colorization Techniques using Multispectral Images: from Color Fusion to Color Mapping

Yufeng Zheng
Department of Advanced Technologies, Alcorn State University, Lorman, MS, USA

M-L3.5   Super-resolution Reconstruction of Sequence Image Implemented on OMAP3530 Platform

Juan Li[1], Binghua Su[1,2], Guiying Xu[1], Rimao Lin[1]
[1] Key Laboratory of Photo Electronic Imaging Technology and System, Ministry of Education of China, Beijing Institute of Technology, Beijing, 100081, PR China
[2] Information School, Zhuhai Campus, Beijing Institute of Technology, Zhuhai, 519085, PR China

M-L3.6   Secure Group Identity Authentication based on Non-perfect Secret Sharing Scheme

Juan Wan[1], Zhengyao Bai[1], Xiao Bai[2]
[1]School of Information Science and Engineering, Yunnan University, Kunming, P. R. China
[2]Office of Development and Planning, Beihang University, Beijing, China

M-L3.7   Sensor Pattern Noise in JPEG Compressed Images

Chenyang Shi, Yuting Su, Jing Zhang, Junyu Xu
The School of Electronic Information Engineering, Tianjin University, Tianjin, P. R. China

M-L3.8   Detection of Video Transcoding for Digital Forensics

Junyu Xu, Yuting Su, Xingang You
School of Electronic Information Engineering, Tianjin University, Tianjin, China

M-L3.9   Reversible Image Watermarking by Rhombus Prediction and Histogram Modification

Hao-tian Wu[1], Jiwu Huang[1], Ye Zhang[2], Jane You[3]
[1]School of Information Science and Technology, Sun Yat-Sen University, Guangzhou, China
[2]Department of Information Engineering, Harbin Institute of Technology, Harbin, China
[3] Department of Computing, Hong Kong Polytechnic University, Hong Kong

M-L3.10   Research and Realization of Perspective Correction Technology for Document Image

Shouliang Liu, Yiming Li, Yupeng Gao, Kai Yang
Physics and Electronic Information Engineering College, Wenzhou University, Wenzhou 325000, China

M-P1   **Image Processing (Papers#:11)**
            Multimedia SOC Design (Papers#:3)
            Chairs: Guo feng, Shanghai University, China.
                     Hongxue Wang, Shanghai University,China
            Location: Dynasty Room

M-P1.1   Segmentation Algorithm of High Resolution Remote Sensing Images   Based on LBP and Statistical Region Merging

Bo Luo, Jian Cheng
School of Electronic Engineering, University of Electronic Science and Technology of China, Chengdu, Sichuan, 611731, China

M-P1.2   Texture Synthesis Based on Wavelet Transform
Wei Xiong, Xuzhi Wang, Liuchuang Gao
School of Communication & Information Engineering Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

M-P1.3   An Improved Subdivision Algorithm Using for Heart Model
Jianhua Li , Xiuli Ma, Feng Zhou, Jingbo Li
School of Communication and Information, Shanghai University, China
Institute of Smart City, Shanghai University, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

M-P1.4   Unequal Error Protection Transmission Scheme for 3D Meshes Based on EWF
Longfei Li, Rui Wang, Wanggen Wan, Shuai Yu, Linfeng Du, Jie Hu
School of Communication and Information Engineering, Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

M-P1.5   Local Subdivision on Triangle Mesh
Yangyang Jia, Xuzhi Wang,Xiuli Ma, Jinbo Li, Xueli Zhou
School of Communication and Information Engineering, Shanghai University,
Institute of Smart City, Shang Hai Han Pan S&T Ltd, Shanghai, China

M-P1.6   Filtered Back Projection Reconstruction Research Based on Gaussian in PET Images
Meng Yang, Peimin Yan, Hui Huang, Jifei Li
School of Communication and Information Engineering, Shanghai University, Shanghai, China

M-P1.7   Image Segmentation by Sparse Representation
Ying Wang, Xiangyang Wang, Chao Gan
School of Communication & Information Engineering,Shanghai University
Institute of Smart City, Shanghai University, China
Shanghai HanPan Information S&T Ltd , Shanghai, China

M-P1.8   Scanning Text Image Radial Calibration Technology Research
Kai Yang, Yiming Li, Yupeng Gao, Shouliang Liu
Administrative building (205) Wenzhou University (south) Ouhai area Wenzhou, Zhejiang Province, China 325035

M-P1.9   A Contourlet-based Image Super-resolution Approach
Tao Zhang [1],   Xiangyu Yu[2]
[1]Department of Physics & Electronic, Information Science, Guiyang University, Guiyang, China
[2]School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China

M-P1.10   Human Motion Segmentation by RPCA with Augmented Lagrange Multiplier
Chao Gan, Xiangyang Wang, Ying Wang
School of Communication & Information Engineering, Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd , Shanghai, China

M-P1.11   Model Optimization by Loop and Linear Subdivision
Yangyang Jia, Xuzhi Wang, Xiuli Ma, Jinbo Li, Xueli Zhou
School of Communication and Information Engineering Shanghai University, Institute of Smart City, Shang Hai Han Pan S&T Ltd, Shanghai, China

M-P1.12   The Research of Security Algorithms for RF Tag
Wulong Yu, Shenghui Weng, Qinli Ke
School of Information Science And Technology, Beijing Institute of Technology, Beijing Institute of Technology, Zhuhai, Zhuhai Guangdong, China

M-P1.13   Design of Test Platform for 3D Graphics Pipeline Based on Microblaze
Feng Guo[1,2,3,4], Wanggen Wan[1,3], Ximin Zhang[1,3,4], Xueli Zhou[1,3,4]
[1]School of Communication and Information Engineering, Shanghai University, Shanghai, China
[2]School of Informatics, Linyi University, Linyi, China
[3]Institute of Smart City, Shanghai University, China
[4]Shanghai HanPan Information S&T Ltd, Shanghai, China

M-P1.14   High Efficient Logarithm Convertor for Graphics Physics Simulation
Liuchuang Gao, Mengyao Zhu, Junwei He, Wei Xiong
School of Communication and Information Engineering Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

15:30-15:45 Coffee Break

15:45-17:45 Oral Session (30 papers in 3 rooms)

M-L4   **Audio and Music Processing (Papers#:10)**
           Chairs: Benoit BECKERS, GSU (Urban Systems Engineering) Department,
               UTC (Compiègne University of Technology), France.
               IP Ralph W.L., Department of Mechanical Engineering, The University of Hong Kong, Hong Kong, China
           Location: Dynasty Room 1

M-L4.1   A New Digital Audio System Design to Cope with High Audio Scene (HAS) Encoding Technology for All Round Applications
IP Ralph W.L.[1], IP Percy W.H.[2]
[1]Department of Mechanical Engineering, The University of Hong Kong, Hong Kong
[2]Technology Innovation Ltd. Cable TV Tower, Hong Kong

M-L4.2 Phase Compensation for Multichannel Low-Frequency Response Using Minimax Approximation
Chingshun Lin, Yihen Chen
Department of Electronic Engineering, National Taiwan University of Science and Technology, Taiwan

M-L4.3 Circuit Design and Performance Evaluation of High-Voltage Power Amplifier for Flexible Paper Speaker Applications
Yu-Chen Chang, Chun-Yu Yang, Chia-Hsing Li
Dept. of Electronic Engineering, National Taiwan University of Science and Technology, Taiwan

M-L4.4 An Image Mosaic Algorithm Based on Characteristic Point Matching
Jing Xu[1], Xiaohong Yang[2], Xiangxin Shao[3], Xianying Meng[4]
[1]Department of Neurology Internal Medicine, First Hospital of Jilin University, Jilin, China
[2]Department of Aviation Control Engineering, Aviation University of Air Force, Jilin, China
[3]College of Electronic Science & Engineering, ChangChun University of Technology, Jilin, China
[4]Department of Thyroid Surgery, First Hospital of Jilin University, Jilin, China

M-L4.5 Design of Efficient Decompression Algorithm in Helicopter Flight
Bian Yan-shan[1], Wu Ling-da[1], Qu Tian-yu[2], Zhang Yi[1]
[1]The Academy of Equipment, Beijing 101416, China
[2]No.65547 Troops, Liaoning 114200, China

M-L4.6 An Adaptive Early Termination Algorithm of Fast Mode Decision for Multi-View Video Coding
Pei Tao[1], Guang Jiang[1], Wei Li[2]
[1]ISN National Key Lab, School of Telecommunication Engineering, Xidian University, Xi'an 710071, China
[2]Xi'an Flight Automatic Control Research Institute, Xi'an 710065, China

M-L4.7 Score-Informed Pitch-Wise Alignment Using Score-Driven Non-Negative Matrix Factorization
Tien-Ming Wang, Pei-Yin Tsai, Alvin W.Y. Su
The Department of Computer Science and Information Engineering, National Cheng-Kung University, Taiwan

M-L4.8 A New Method for Calibration Depth and Color Camera Pair Based on Kinect
Weihua Liu, Yangyu Fan, Zhang Zhong, Tao Lei
School of Electronic and Information Engineering, Northwestern Polytechnical University, Xi'an, China

M-L4.9 A Finite-State Entropy-Constrained Vector Quantizer for Audio MDCT Coefficients Coding
Sumxin Jiang, Rendong Yin, Peilin Liu
Department of Electronic Engineering, Shanghai Jiao Tong University, Shanghai, China

M-L4.10   Comprehensive Comparison of the Least Mean Square Algorithm and the Fast Deconvolution Algorithm for Crosstalk Cancellation
Dan Li, Zhong-Hua Fu ,Lei Xie, Yanning Zhang
Shaanxi Provincial Key Laboratory of Speech and Image Information Processing, School of Computer Science, Northwestern Polytechnical University, Xi'an 710129, China

M-L5   **Audio and Music Processing (Papers#:10)**
Chairs: Hoi-Jun Yoo, Korea Advanced Institute of Science and Technology (KAIST), Korea.
Adrian Bahne, Uppsala University, Department of Engineering Sciences, Signals and Systems, Box 534, SE-751 21 Uppsala, Sweden
Location: Dynasty Room 2

M-L5.1   Reverberation Time Estimation Based on Multidelay Acoustic Echo Cancellation
Changxue Ma, Guangji Shi
DTS Inc.100 Enterprise Way, Suite C-120, Scotts Valley, CA, 95066, USA

M-L5.2   Time-Dependent Recursive Regularization for Sound Source Separation
Tien-Ming Wang, Ta-Chun Chen, Yin-Lin Chen, Alvin W.Y. Su
The Department of Computer Science and Information Engineering, National Cheng-Kung University, Taiwan

M-L5.3   Multi-theme Analysis of Music Emotion Similarity for Jukebox Application
Chih-Yi Lin, Stone Cheng
Master Program of Sound and Music Innovative Technologies, National Chiao Tung University, Hsinchu, Taiwan, ROC

M-L5.4   A Module-Integrated Isolated Solar Micro-inverter without Electrolytic Capacitors
Chia-Hsing Li[1], Chun-Yu Yang[1], Yu-Chen Chang[1], Huang-Jen Chiu[1], Yu-Kang Lo[1], Ching-Chun Chuang[1],Shih-Jen Cheng[1], Min-Chien Kuo[2], Yi-Ming Huang[2], Yuan-Bor Jean[2], Yung-Cheng Huang[2]
[1]Dept. of Electronic Engineering, National Taiwan University of Science and Technology, Taiwan
[2]AUO Optronics Corp, Central Taiwan Science Park, Taichung, Taiwan

M-L5.5   Improved Loudspeaker--Room Equalization for Stereo Systems Regarding Channel Similarity
Adrian Bahne, Lars-Johan Brännmark, Anders Ahlén
Uppsala University, Department of Engineering Sciences, Signals and Systems, Box 534, SE-751 21 Uppsala, Sweden

M-L5.6   Audio Feature Extraction for Classification Using Relative Transformation
Guihua Wen[1,2], Jian Tuo[1], Lijun Jiang[1], Jia Wei[1]
[1]South China University of Technology, Guangzhou 510641, China
[2]State Key Laboratory of Brain and Cognitive Science, Beijing 100101, China

M-L5.7　Automatic Instrument and Environmental Sound Recognition for Media Annotation of TV Content

Sofia Cavaco, Frederico Malheiro, João Mateus, Rui Jesus, Nuno Correia
CITI, Departamento de Informática, Faculdade de Ciências Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal
Multimedia and Machine Learning Group, Instituto Superior de Engenharia de Lisboa, Rua Conselheiro Emídio Navarro, Lisboa, Portugal

M-L5.8　PCA Based on Mutual Information for Acoustic Environment Classification

Xueli Fan, Haihong Feng, Meng Yuan
Shanghai Acoustics Laboratory, Chinese Academy of Sciences, Shanghai, China

M-L5.9　HHT Based Long Term Feature Extracting Method for Speech Emotion Classification

Zhenlu Wang, Haifeng Li, Lin Ma
School of Computer Science and Technology, Harbin Institute of Technology, Harbin, China

M-L5.10　Radon Transform and DWT based Audio Watermarking Algorithm against DA/AD Conversion

Cairong Li[1,2], Ruimin Hu[2], Wei Zeng[3]
[1]Faculty of History and Culture, Hubei University, China
[2]National Engineering Research Center for Multimedia Software, Wuhan University, China
[3]Jiangxi Electric Power Research Institute, Nanchang, China

M-L6　Audio and Music Processing (Papers#:10)

Chairs: An Ji, Marquette University, Department of Electrical and Computer Engineering, Speech and Signal Processing Laboratory. P.O. Box, 1881. Milwaukee, WI 53201-1881, USA

Michael Kai Petersen，School Graduate School of Engineering, Tohoku University, Faculty of Literature, Hirosaki University, Japan

Location: Dynasty Room 3

M-L6.1　Despeckling Medical Ultrasound Image Based on Spatially Adaptive Maximum-Likelihood Estimation

Jinhua Yu, Tao Hou, Yi Guo, Yuanyuan Wang
State Key Laboratory of ASIC & System, Department of Electronic Engineering, Fudan University, Shanghai 200433, China

M-L6.2　Tracking Articulator Movements using Orientation Measurements

An Ji, Michael T. Johnson, Jeffrey Berry
Marquette University, Department of Electrical and Computer Engineering, Speech and Signal Processing Laboratory. P.O. Box, 1881. Milwaukee, WI 53201-1881, USA

M-L6.3　Effect of Arabic Emphaticness on Voice Onset Time(VOT)

Yousef Ajami Alotaibi, Sulaiman S. AlDahri
College of Computer & Information Sciences, Computer Engineering Department, King Saud University, Riyadh, Saudi Arabia

M-L6.4   Automatic Assessment of Easiness of Japanese for Writing Aid of "Easy Japanese"
Meng Zhang, Akinori Ito, Kazuyuki Sato
School Graduate School of Engineering, Tohoku University, Faculty of Literature, Hirosaki University, Japan

M-L6.5   On an Emotional Node: Modeling Sentiment in Graphs of Action Verbs
Michael Kai Petersen, Lars Kai Hansen
Cognitive Systems, DTU Informatics, Technical University of Denmark. Building 321, DK-2800 Kgs. Lyngby, Denmark

M-L6.6   Confidence Measure by Substring Comparison for Automatic Speech Recognition
Bartosz Ziółko, Tomasz Jadczyk, Dawid Skurzok, Mariusz Ziółko
Department of Electronics, AGH University of Science and Technology, Al. Mickiewicza 30, 30-059 Kraków, Poland

M-L6.7   Joint N-gram Chinese Language Modeling with an Application to Chinese Word Segmentation
Xin He, Zhijian Ou, Jiasong Sun
Department of Electronic Engineering, Tsinghua University, Beijing 100084, China

M-L6.8   Subjective and Objective Quality Assessment of Re-sampling Audio
Limin Hou, Weiqi Wu, Shuang Yang, Tao Yang, Xinpeng Zhang
School of Communication and Information Engineering, Shanghai University, Shanghai, China, 200072

M-L6.9   A Hierarchy-based Constraint Dependency Grammar Parsing for Chinese
Peng Li, Lejian Liao, Xin Li
Beijing Engineering Research Centre of High Volume Language Information Processing & Cloud Computing Applications,School of Computer Science, Beijing Institute of Technology, Beijing 100081, China

M-L6.10   Distinguishing Infant Cry from Adult Voice Based on Spectrum Analysis
Xin Wei, Yan-Xiong Li, Lin Zhong, Jian-Bin Liang
School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China.

18:00-19:30 Welcome Reception

Tuesday, July 17, 2012

08:30-09:15 Keynote Speech 4
Real Time Dynamics in Comprehensive 3D Environments Assisted with Image Based Solution
Enhua Wu, Faculty of Science and Technology, University of Macau & State Key Lab of Computer Science, Chinese Academy of Sciences, China
Location: Panorama Room

09:15-10:00 Keynote Speech 5
> Humanistic Intelligence System - Multi-core Pattern Recognition Processor with Brain Mimicking Mixed Mode Intelligence Circuits
> Hoi-Jun Yoo, Korea Advanced Institute of Science and Technology (KAIST), Korea
> **Location: Panorama Room**

10:00-10:15 Coffee Break

10:15-10:45 Smart City Forum: Keynote Speech 1
> Daylight and Solar Energy Simulation at Urban Scale
> Benoit BECKERS, GSU (Urban Systems Engineering) Department, UTC (Compiègne University of Technology), France
> **Location: Panorama Room**

10:45-11:15 Smart City Forum: Keynote Speech 2
> Multi-Modality Urban Scene Modeling
> Ye Duan, Department of Computer Science, University of Missouri at Columbia, USA
> **Location: Panorama Room**

11:15-11:45 Smart City Forum: Keynote Speech 3
> Energy Efficient Heterogeneous Data Center Servers for Green and Smart Cities
> Yajun Ha, Department of Electrical & Computer Engineering, National University of Singapore, Singapore
> **Location: Panorama Room**

12:00-13:30 Lunch

13:30-15:30 Oral Session (30 papers in 3 rooms)
13:30-17:30 Poster Session (13 papers)

T-L1   Language and Speech Processing (Papers#:10)
> **Chairs:** M. S. Barakat, ICT Research Institute / School of Electrical, Computer and Telecommunication Engineering, University of Wollongong, NSW, Australia.
> Sulaiman S. AlDahri, King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia.
> **Location: Dynasty Room 1**

T-L1.1   Spectral Local Harmonicity Feature for Voice Activity Detection
Pham Chau Khoa, Chng Eng Siong
School of Computer Engineering, Nanyang Technological University, Singapore

T-L1.2   SVM Speaker Verification Based on NAP Sequence Kernels
Hengjie Li, Yujuan Xing, Ping Tan
School of Science and Engineering, Gansu Lianhe University, Lanzhou, China

T-L1.3   Detecting Offensive User Video Blogs: An Adaptive Keyword Spotting
          Approach
          M. S. Barakat, C. H. Ritz, D. A. Stirling
          ICT Research Institute / School of Electrical, Computer and
          Telecommunication Engineering, University of Wollongong, NSW, Australia.

T-L1.4   The Effect of Arabic Emphaticness on Voice Time Onset (VOT)
          Sulaiman S. AlDahri
          King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia

T-L1.5   GMM-UBM for Text-Dependent Speaker Recognition
          Wanli Chen[1], Qingyang Hong[2], Ximin Li[1]
          [1]Cognitive Science Department, Xiamen University, Xiamen, China
          [2]Fujian Key Laboratory of the Brain-like Intelligent Systems, Xiamen
          University, Xiamen, China

T-L1.6   Syllable Category Based Short Utterance Speaker Recognition
          Nakhat Fatima, Thomas Fang Zheng
          Center for Speech and Language Technologies, Division of Technical
          Innovation and Development, Tsinghua National Laboratory for Information
          Science and Technology, Department of Computer Science and Technology,
          Tsinghua University, Beijing, China

T-L1.7   Generating Emphasis from Neutral Speech Using Hierarchical Perturbation
          Model by Decision Tree and Support Vector Machine
          Fanbo Meng[1], Zhiyong Wu[1,2,3], Helen Meng[2,3], Jia Jia[1,3], Lianhong Cai[1,3]
          [1]Tsinghua National Laboratory for Information Science and Technology
          (TNList), Department of Computer Science and Technology, Tsinghua
          University, Beijing, China
          [2]Department of Systems Engineering and Engineering Management, The
          Chinese University of Hong Kong, Hong Kong SAR, China
          [3]Tsinghua-CUHK Joint Research Center for Media Sciences, Technologies and
          Systems, Graduate School at Shenzhen, Tsinghua University, Shenzhen, China

T-L1.8   Adapted Language Modeling for Recognition of Retelling Story in Language
          Learning
          Meng Chen, Yang Song, Lan Wang
          Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences,
          Shenzhen, China
          The Chinese University of Hong Kong, Hong Kong

T-L1.9   Straight Model for Voice Conversion Based on Acoustical Universal Structure
          Gang Xu, Qi Zhou, Dong Zhao, Ding Huang
          Electrical & Electronic Engineering School, North China Electric Power
          University (NCEPU), China

T-L1.10   Mel Domain Objective Speech Quality Evaluation Measure Performance
          Wenlian Zhan, Zhulin Shen
          School of Foreign Languages, Hunan International Economics University,
          Changsha, China

T-L2   **Image Processing (Papers#:10)**
      Chairs: Benoit BECKERS, GSU(Urban Systems Engineering) Department, UTC
           (Compiègne University of Technology), France.
           Liu Fang, School of Electronic Information & Control Engineering,
           Beijing University of Technology, Beijing, China.
      Location: Dynasty Room 2

T-L2.1   A New Image Denoising Algorithm Based on Nonsubsampled Contourlet Transform
Haohao Song, Jian Gu
The MPS Quality Supervision and Testing Center of Security Products for Computer Information System, Shanghai, China

T-L2.2   Combination of Curvelet Threshold with Bilateral Filtering for Image Denoising
Guojun Liu[1], Wentao Ma[2], Yuemei Ma[2]
[1]School of Mathematics and Computer Science, Ningxia University, Yinchuan, China
[2]Ningxia Institute of Ethnic Preparatory Education, Ningxia University, Yinchuan, China

T-L2.3   Image Fusion Using Adaptive Dual-Tree Discrete Wavelet Packets Based on the Noise Distribution Estimation
Liu Fang[1], Yang Biao[2], Kaigang Li[1]
[1]School of Electronic Information & Control Engineering, Beijing University of Technology, Beijing, China
[2]Department of Automation, North China University of Technology, Beijing, China

T-L2.4   A Color Interpolation Scheme Based on Improved Bilinear Scheme for Bayer CFA Digital Cameras
Hao Ren[1], Lei Xie[1,2], Huifang Chen[1,2]
[1]Dept. of Information Science and Electronic Engineering, Zhejiang University, Zhejiang, China
[2]Zhejiang Provincial Key Laboratory of Information Network Technology, Hangzhou, P. R. China

T-L2.5   A Blind Image Restoration Algorithm Based on Nonlocal Means and EM Algorithm
Chao Dong, Meihua Xie
Department of Systems Science, School of Science, National University of Defense Technology, Changsha, Hunan, China.

T-L2.6   A Super Resolution Reconstruction Scheme for Mixed Spatio-Temporal Stereo Video
Boyang Zhang[1], Ju Liu[1], Jing Ge[1], Changbing Chen[1], Hui Yuan[1],Wei Liu[2]
[1]School of Information Science and Engineering, Shandong University, Jinan, China
[2]Hisense State Key Laboratory of Digital Multi-Media Technology Corp. Ltd., Qingdao, China

T-L2.7   A New Image Deblurring Method Based on Fractional Differential
Wei Wang, Peizhong Lu
School of Computer Science, Fudan University, Shanghai, China

T-L2.8   Bayesian Nonlocal Means Image Denoising Based on Principal Neighborhood Dictionaries
Huihui Lu
Xidian University, Xi'an, China.

T-L2.9   Removing Illumination from Image Pair for Stereo Matching
Yawei Han, Guixin Xuan, Changyong Li, Danyang Li, Hui Han
Chongqing Communication Institute, Chongqing, China

T-L2.10   Alleviating Blocking Artifacts via Curve-Fitting
Chenyu Xu[1,2], Renjie He[1,2], Shaohui Mei[1,2], Mingyi He[1,2]
[1]Shaanxi Provincial Key Laboratory of Information Acquisition and Processing (IAP), China
[2]School of Electronics and Information, Northwestern Polytechnical University, Xi'an, China

T-L3   **Image Processing (Papers#:10)**
        Chairs: Ye Duan, Department of Computer Science, University of Missouri at Columbia, USA.
            Zhong Zhen, Shanghai Jiao Tong University, Shanghai, China
     Location: Dynasty Room 3

T-L3.1   Video Abnormal Target Description Based on CRF Model
Long Zhao, Li Guo, Jinsheng Xie, Hao Liu
Department of Electronic Science and Technology, University of Science and Technology of China, Hefei, China

T-L3.2   Three-dimensional Reconstruction of Slice Image Based on Range-gated Active Laser Imaging Technique
Lin Du, Yingchun Li, Huichao Guo, Youchen Fan
The Academy of Equipment, Beijing, China

T-L3.3   An Automatic Image and Video Colorization Algorithm based on Pattern Continuity
Zhong Zhen, Gui Yan, Ma Lizhuang
Shanghai Jiao Tong University, Shanghai, China

T-L3.4   A Method of Extracting Skeleton based on FMM
Xiuqiang Pan
College of Information and Communications, Zhejiang Industry & Trade Vocational College, Wenzhou, China

T-L3.5   A Novel 2D-to-3D Conversion Method Based on Blocks World
Pan Ji[1,2], Lianghao Wang[1,2], Dong-Xiao Li[1,2], Ming Zhang[1,2]
[1]Institute of Information and Communication Engineering, Zhejiang University, Hangzhou, China
[2]Zhejiang Provincial Key Laboratory of Information Network Technology, Hangzhou, China

T-L3.6   An Automatic 2D to 3D Conversion Algorithm Using Multi-depth Cues

Pan Ji[1, 2], Lianghao Wang[1,2], Dong-Xiao Li[1, 2], Ming Zhang[1, 2]
[1]Institute of Information and Communication Engineering Zhejiang University, Hangzhou, China
[2]Zhejiang Provincial Key Laboratory of Information Network Technology, Hangzhou, China

T-L3.7   Image Classification by Exploiting the Spatial Context Information

Yan Song[1], Lirong Dai[1], Li Yu[2]
[1]Depart. of Electronic Engineering, University of Science and Technology of China, China
[2]Hefei TV Station, Hefei, China

T-L3.8   Hybrid Stereo Matching by Dynamic Programming with Enhanced Cost Entry for Real-time Depth Generation

Qingqing Yang[1,2], Lianghao Wang[1,2], Dongxiao Li[1,2], Ming Zhang[1,2]
[1]Institute of Information and Communication Engineering, Zhejiang University, Hangzhou, China
[2]Zhejiang Provincial Key Laboratory of Information Network Technology, Hangzhou, China

T-L3.9   Abnormal Object Representation Based on Surprise Model

Jinsheng Xie, Li Guo, Long Zhao, Shu Gui
Department of Electronic Science and Technology, University of Science and Technology of China, Hefei, China

T-L3.10   Contour Detection Based on Semi-Ellipticity-Ring Surround Suppression

Dou Yan, Yu Yang
College of Information Science and Engineering, Yanshan University, Qinhuangdao, Hebei Province, China

T-P1   **Audio and Music Processing (Papers#:10)**
Remote Sensing and GIS (Papers#:3)
Chairs: Ximin Zhang, Shanghai University, China
         Libing Lu, Shanghai University, China
Location: Dynasty Room

T-P1.1   Rendering of Large-Scale 3D Terrain Point Cloud Based on Out-of-Core

Liang Liu[1,2,3], Xiaoqing Yu[1,2,3], Wanggen Wan[1,2,3], Haifeng Yu[1,2,3], Ran Liu[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.2   Study of Depth of Field Based on GPU Post-Processing

Wei Xiong[1,2,3], Xuzhi Wang[1,4], Feng Guo[1,2,3,4]
[1]School of Communication & Information Engineering, Shanghai University, Shanghai, China
[2]Institute of Smart City, Shanghai University, China
[3]Shanghai HanPan Information S&T Ltd, Shanghai, China
[4]School of Informatics, Linyi University, Linyi, China

T-P1.3   Threat Substances Explosion and Polluted Building Surfaces Detection Research in 3D Virtual City Based on ArcGIS
Li Li[1,2,3], Wanggen Wan[1,2,3], Xinxin Li[1,2,3], Rui Wang[1,2,3], Ximin Zhang[1,2,3], Xiaoqing Yu[1,2,3]
[1]School of Communication and Information Engineering, Shanghai University, China
[2]Institute of Smart City, Shanghai University, China
[3]Shanghai HanPan Information S&T Ltd, Shanghai, China

T-P1.4   The Telematic Learning Environment:Experiences and Outcomes Teaching via Network Audio
Diana Chester
New York University Abu Dhabi, USA

T-P1.5   Robust Audio Fingerprint Extraction Algorithm Based on 2-D Chroma
Hongxue Wang[1,2,3], Xiaoqing Yu[1,2,3], Wanggen Wan[1,2,3], Ram Swaminathan[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.6   Noise Reduction Based on Nearest Neighbor Estimation for Audio Feature Extraction
Jianhua Shi[1,2,3], Xiaoqing Yu[1,2,3], Yunhui Wang[1,2,3] , Wanggen Wan[1,2,3], Ram Swaminathan[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.7   Audio Fingerprinting Based on Dynamic Subband Locating and Normalized SSC
Wei Xiong[1,2,3], Xiaoqing Yu[1,2,3], Wengen Wang[1,2,3], Wanggen Wan[1,2,3], Ram Swaminathan[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.8   On Objective Assessment of Audio Quality-A Review
Jia Zheng[1,2,3], Mengyao Zhu[1,2,3],Yao Song[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.9   Analysis on Greedy Reconstruction Algorithms Based on Compressed Sensing
Linfeng Du [1,2,3], Rui Wang [1,2,3], Wanggen Wan[1,2,3], XiaoQing Yu[1,2,3], Shuai Yu[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.10   An Improved Spectral Subtraction Method
Huanhuan Liu[1,2,3], Xiaoqing Yu*[1,2,3], Wanggen Wan[1,2,3], Ram Swaminathan[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.11   A Method of Fast Rebuilding and Displaying Lujiazui Area Based on ArcGlobe
Li Li[1,2,3], Wanggen Wan[1,2,3], Xinxin Li[1,2,3], Ximin Zhang[1,2,3], Wei Xiong[1,2,3], Xiaoqing Yu[1,2,3]
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.12   Random Routing Algorithm for Rhombic-deployed Sensor Networks Based on Compressed Sensing
Rui Wang, Shuai Yu, Wanggen Wan, Yueyue Gao, Linfeng Du
[1]Shool of Communication and Information Engineering, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd., Shanghai, China

T-P1.13   A Study of the Unification of Multisensor Data
Ruoyan Wang[1], Zhaohua Wang[2], Dajun Lian[2]
[1]The school of Innovation Experiment Dalian University of Technology, China
[2]The school of Environmental Science and Engineering Suzhou University of Science and Technology, China

15:30-15:45 Coffee Break

15:45-17:45 Oral Session (30 papers in 3 rooms)

T-L4   **Image Processing (Papers#:10)**
        Chairs: Lee Hung Liew, Faculty of Computer & Mathematical Sciences, Samarahan Campus, Universiti Teknologi MARA, Malaysia.
            Belkacem Baassou, Shaanxi Provincial Key Laboratory of Information Acquisition and Processing (IAP), China.
        Location: Dynasty Room 1

T-L4.1   Comparative Analysis and Evaluation of Geometric Transformations on Distortions for Image Rectification
Lee Hung Liew[1], Yin Chai Wang[1], Wai Shiang Cheah[2]
[1]Faculty of Computer & Mathematical Sciences, Samarahan Campus, Universiti Teknologi MARA
[2]Faculty of Computer Science and Information Technology, Universiti Malaysia Sarawak

T-L4.2   Digital Outcrop Modeling and Geology Information Extraction Based on Ground-Based Lidar
Qihong Zeng, Xing Xie, Youyan Zhang, Yong Ye, Yan Hu, Song Liu
Research Institute of Petroleum Exploration and Development, PetroChina, Beijing, China

T-L4.3   Localization in NLOS Environment Using TOA/DOA/DOD
Liping Du, LuLu Kang, Ying Lv
Department of Communication, School of Computer & Communication Engineering,University of Science and Technology   Beijing, Beijing 100083, China.

T-L4.4   DOA Estimation for Wideband Signals via the Homotopy Approach
Nan Hu[1,2], Zhongfu Ye[1,2], Xu Xu[1,2]
[1]Department of Electronic Engineering and Information Science, University of Science and Technology of China, Hefei,   Anhui 230027, China
[2]National Engineering Laboratory for Speech and Language Information Processing, Hefei, Anhui 230027, China

T-L4.5   Accuracy Improvement Method of Forest Height Estimation for PolInSAR Image
Nghia Pham Minh, Bin Zou
Harbin Institude of Technology, No 92 West DaZhi street, Harbin, 150001, China

T-L4.6   Integrating Segmentation and Classification Accuracy for Accuracy Assessment in Object-based Image Analysis
Nan Li, Hong Huo, Tao Fang
Institute of Image Processing and Pattern Recognition, Department of Automation, Shanghai Jiao Tong University, and Key Laboratory of System Control and Information Processing, Ministry of Education, Shanghai, China

T-L4.7   On Hyperspectral Remotely Sensed Image Classification Based on MNF and AdaBoosting
Yuming Xu[1], Ping Yu[2], Baofeng Guo[1], Xiaojian Gao[1], Yunfei Guo[1]
[1]Institution of Information and Control, School of Automation, Hangzhou Dianzi University, Hangzhou, China
[2]Changchun Institution of Optics, Fin Mechanics and Physics, Chinese Academy of Sciences, Changchun, China

T-L4.8   Unsupervised Hyperspectral Image Classification Algorithm by Integrating Spatial-Spectral Information
Belkacem Baassou[1,2], Mingyi   He[1,2], Shaohui Mei[1,2], Yifan Zhang[1,2]
[1]Shaanxi Provincial Key Laboratory of Information Acquisition and Processing (IAP), China
[2]School of Electronics and Information, Northwestern Polytechnical University, Xi'an, 710129, China

T-L4.9   Experimental Study on Rationality of 'Hilbert Envelope' Based on Empirical Mode Decomposition

Qinglin Meng [1,2], Meng Yuan [1], Jianping Zhao[1,2], Haihong Feng[1]
[1]Shanghai Acoustics Laboratory, Chinese Academy of Sciences, China
[2]Graduate University of Chinese Academy of Sciences, China

T-L4.10   Real-Time 3DTV System for Autostereoscopic Displays

ShaoJun Yao[1, 2], PengFei Jin[1, 2], Hang Fu[1, 2], LiangHao Wang[1, 2], DongXiao Li[1, 2], Ming Zhang[1, 2]
[1]Institute of Information and Communication Engineering, Zhejiang University, Hangzhou 310027, China
[2]Zhejiang Provincial Key Laboratory of Information Network Technology, Hangzhou 310027, China

T-L5   **Remote Sensing and GIS (Papers#:10)**
            Chairs: Congying Wan, Department of Biomedical and Engineering, Xi'an Jiaotong University, Xi'an, China
                     Narendra M Patel, Computer Engineering Department, B.V.M Engineering College, Vallabh Vidyanagar, India.
            Location: Dynasty Room 2

T-L5.1   Design and Evaluation of an Electrolarynx with Mandarin Tone-Control Function

Congying Wan, Erqiang Wang, Liang Wu, Supin Wang
Department of Biomedical and Engineering, Xi'an Jiaotong University, Xi'an, China

T-L5.2   The Study of Image Processing for Retinal Prosthesis Based on Android

Zhou Su[1, 2], Songping Mai[1], Chun Zhang[2]
[1]Graduate School at Shenzhen, Tsinghua University Shenzhen, Guangdong 518055, China
[2]Institute of Microelectronics, Tsinghua University, Beijing, 100084, China

T-L5.3   EEG Signal Processing Based on Proper Orthogonal Decomposition

Ting Zhou, Hui Jiang
College of Physics and Information Engineering, Fuzhou University, Fuzhou, Fujian, China

T-L5.4   A Combined Destruction-Monitoring Strategy: Rapid Microbubble Destruction within a Focal Region on a Diagnostic Ultrasound Scanner

Shanshan Xu, Hujie Jiang, Zhian Xu
The Key Laboratory of Biomedical Information Engineering of Ministry of Education, Department of Biomedical Engineering, School of Life Science and Technology, Xi'an Jiaotong University, Xi'an, P.R.China

T-L5.5   Time Delay Estimation for Low SNR Signals with Impulsive Noises Using Fractional Low Order Covariation Sequences

Wenhong Liu
School of Electronics Information, Shanghai Dianji University, Shanghai, China

T-L5.6   Extraction for Finger Vein Pattern Based on PDE
Fengchun Zhang[1], Junyao Guo[2] , Shuxu Guo[1]
[1]College of Electronic Science and Engineering, Jilin University, Changchun, Jilin 130012, China
[2]Department of Electronic Engineering, Tsinghua University, Beijing 100084, China

T-L5.7   Undersampled MRI Reconstruction Comparison of TGV and TV
Yang Fei[1], Jianhua Luo[2]
[1]School of Biomedical Engineering, Shanghai Jiao Tong University, Shanghai, China
[2]School of Aeronautics and Astronautics, Shanghai Jiao Tong University, Shanghai, China

T-L5.8   Accelerating Volume Ray Casting by Empty Space Skipping Used for Computer-Aided Therapy
Yinong Wang[1], Weibei Dou[1], Jean-Marc Constans[2]
[1]Department of Electronic Engineering, Tsinghua University, Beijing, 100084, China
[2]Unité d'IRM, CHU de Caen, 14033 Caen, France

T-L5.9   A Real-Time Leg Motion Recognition System by Using Mahalanobis Distance and LS_SVM
Ling Chen [1,2], Qingsong Ai [1,2], Yan He [1], Quan Liu [1,2], Wei Meng [1,2]
[1]School of Information Engineering, Wuhan University of Technology, 122 Luoshi Road, Hongshan District, Wuhan, Hubei, P. R. China, 430070
[2]Key Lab. of Fiber Optic Sensing Technology and Information Processing, Wuhan University of Technology, 122 Luoshi Road, Hongshan District, Wuhan, Hubei, 430070, China

T-L5.10   3D Model Reconstruction and Animation from Single View Face Image
Narendra M Patel[1], Mukesh Zaveri[2]
[1]Computer Engineering Department, B.V.M Engineering College, Vallabh Vidyanagar, India
[2]Computer Engineering Department, SVNIT, Surat, India

T-L6   **Bio-informatics (Papers#:10)**
        Chairs: Sid-Ahmed Selouani, Universite de Moncton 218 bvd. J.-D.-Gauthier, Shippagan, E8S 1P6, Canada.
            Xiangyang Wang, Shanghai University, China.
         Location: Dynasty Room 3

T-L6.1   Comparing Arabic Rhythm Metrics among Other Languages
Sid-Ahmed Selouani[1], Yousef A. Alotaibi[2], Lin Pan[2]
[1]Universit é de Moncton 218 bvd. J.-D.-Gauthier, Shippagan, E8S 1P6, Canada
[2]College of Computer and Information Sciences, King Saud University, Riyadh 11543, Saudi Arabia

T-L6.2   Motion Vector Recovery Method Based on Kernel Regression
Xuefeng Zhan
Institute of Physics and Communication & Electronics, Jiangxi Normal University, Nanchang, 330027, China

T-L6.3 Research of Pattern Recognition Based on the Local Structure Topological Relationship Modeling
Yinxue Qin, Lin Ma1, Haifeng Li, Qiuhua Wei
School of Computer Science and Technology, Harbin Institute of Technology, Harbin, China

T-L6.4 An Improved Two-View Convergent-Style-Based Disparity Estimation Algorithm
Xiaowei Song[1], Lei Yang[1,2], Zhong Liu[1]
[1]School of Electronic Information, Zhongyuan University of Technology, Zhengzhou, 450007, China
[2] School of Electronic Information Engineering, Tianjin University, Tianjin, 300072, China

T-L6.5 Multi-polarimetric SAR Image Compression Based on Sparse Representation and Super-Resolution
Yuan Chen, Rong Zhang, Dong Yin
Department of Electronic Engineering and Information Science, University of Science and Technology of China, Hefei 230027, China

T-L6.6 Example-based Image Upscaling Using Parallel Texture Synthesis
Rugang Zheng, Bin Sheng, Lizhuang Ma
Department of Computer Science and Engineering,sjtu, China

T-L6.7 An Effective Algorithm for Salt-and-Pepper Noise Removal in Color Images
Jianjun Zhang
Department of Mathematics, Shanghai University, Shanghai 200444, Shanghai, China

T-L6.8 Local Color Transfer via Color Classification
Xue Yang[1,2], Zhuo Su[1,2], Dong Wang[3]
[1]National Engineering Research Center of Digital Life,State-Province Joint Laboratory of DigitalHome Interactive Applications, School of Information Science & Technology, Sun Yat-sen University, China
[2]Research Institute of Sun Yat-sen University in Shenzhen, China
[3]College of Informatics, South China Agricultural University, China

T-L6.9 A GPU Accelerated Algorithm for Compressive Sensing based Video Super-resolution
Xifei Wu, Hui Xiang
School of Computer Science and Technology, Shandong University, Jinan, 250101, China

T-L6.10 Image Contrast Enhancement by Contourlet Transform and PCNN
Weitao Zheng, Tian Pu, Jian Cheng, Hu Zheng
School of Electronic Engineering, University of Electronic Science and Technology of China, Chengdu 611731, Chengdu, Sichuan, China

18:30-20:30 Night Banquet

Wednesday, July 18, 2012

08:30-09:00 Industry Forum: Keynote Speech 1
Green Future of Communication Networks: Technology and Practice
Shunqing Zhang, Huawei Technologies Co., Ltd., China
Location: Panorama Room

09:00-09:30 Industry Forum: Keynote Speech 2
The Application of PTN Technology in Building the Backbone Network of Smart City
Wei Zhou, Shanghai Information Network Co., Ltd., China
Location: Panorama Room

09:30-10:00 Industry Forum: Keynote Speech 3
Construction of Smart City: Shanghai Integrated Traffic Information Platform
Yang Zhang, Shanghai Municipal Transportation information Center, China
Location: Panorama Room

10:00-10:15 Coffee Break

10:15-10:45 Industry Forum: Keynote Speech 4
Advance in Programming Tools for High-Performance Chips and Reusable Designs
Ching Ma, Data I/O Corporation, USA
Location: Panorama Room

10:45-11:15 Industry Forum: Keynote Speech 5
Language Resources, the Accelerator of Human Language Technology
Xianfeng Cheng, SpeechOcean Inc., China
Location: Panorama Room

11:15-11:45 Industry Forum: Keynote Speech 6
The Potential Role of Virtual Reality for the Construction of Intelligent Virtual Cities
Zhaoguang Wang, Shanghai Graphic Design Information Co., Ltd, China
Location: Panorama Room

12:00-13:30 Lunch

13:30-15:30 Oral Session (30 papers in 3 rooms)
13:30-17:30 Poster Session (12 papers)

W-L1   Image Processing (Papers#:10)
   Chairs: Benoit BECKERS, GSU (Urban Systems Engineering) Department, UTC (Compiègne University of Technology), France
            Weiqing Pan, Department of Physics, Zhejiang Science and Technology University, Hangzhou, Zhejiang, China
   Location: Dynasty Room 1

W-L1.1   Stereo Matching Using Aggregated Likelihood and Multi-scale Prior
Liang Wang, Tianliang Liu, Xiuchang Zhu
Jiangsu Provincial Key Lab of Image Processing and Image Communication, Nanjing University of Posts and Telecommunications, Nanjing, 210003, China

W-L1.2   Application of Hough Transform in Lateral Multi-lens Video Logging Image Segmentation
Hongtao Hu[1], Zhouli Li[2]
[1]School of Computer Science, Xi'an ShiYou University, Xi'an, China
[2]School of Electronic Engineering, Xi'an ShiYou University, Xi'an, China

W-L1.3   Beyond Dominant Plane Assumption: Moving Objects Detection in Severe Dynamic Scenes with Multi-Classes RANSAC
Xu Zhang, Shengjin Wang, Xiaoqing Ding
Department of Electronic Engineering, Tsinghua University, Beijing, China

W-L1.4   Handwritten and Machine Printed Text Discrimination Using an Edge Co-occurrence Matrix
Xiaofeng Zhang[1,2], Yue Lu[1]
[1]Dept. of Computer Science and Technology, East China Normal University, Shanghai, China
[2]School of Computer Science and Technology, Nantong University, Nantong, China

W-L1.5   The Bi-Group Evolutionary Programming for Image Processing
Liu Fang[1], Yang Biao[2], Kaigang Li[1]
[1]School of Electronic Information & Control Engineering, Beijing University of Technology, Beijing, China
[2]Department of Automation, North China University of Technology, Beijing, China

W-L1.6   Seal Imprint Segmentation Based on Color Feature Classifier
Weiqing Pan[1], Jianying Hu[2], Mingliang Liu[2], Xin Qi[2], Haitao Lang[2]
[1]Department of Physics, Zhejiang Science and Technology University, Hangzhou, Zhejiang 310023, China
[2]Department of Physics & Electronics, Beijing University of Chemical Technology, Beijing 100029, China

W-L1.7   ROI Perspective Transform Based Road Marking Detection and Recognition
Ziqiong Liu, Shengjin Wang, Xiaoqing Ding
Department of Electronic Engineering, Tsinghua University, Beijing, China

W-L1.8   A New Method to Detect Surface Defects of Fruits
Huiyang Deng, Ruohui Wang
Department of Electronic Engineering, Tsinghua University, Beijing, China

W-L1.9   Cerebrovascular Segmentation Based on Region Growing and Level Set
          Algorithm
          Lizhi Xie[1], Mingquan Zhou[2], Yun Tian[2], Rongfei Cao[2]
          [1]State Key Laboratory of Cognitive Neuroscience and Learning, Beijing
          Normal University, Beijing, China
          [2]College of Information Science and Technology, Beijing Normal University,
          Beijing, China

W-L1.10   A Variational Model of Image Restoration Based on First and Second Order
          Derivatives and Its Split Bregman Algorithm
          Shixiu Zheng, Zhenkuan Pan, Guodong Wang, Xu Yan
          College of Information Engineering, Qingdao University, Qingdao, China

W-L2   Image Processing (Papers#:10)
          Chairs: Kai Tong, Department of Electronic Engineering, Tsinghua University,
                Beijing, China
                Xiao Wu, Southwest Jiaotong University, Chengdu, China
          Location: Dynasty Room 2

W-L2.1   Principal Object Detection towards Product Image Search
          Xiao Wu, Lingling Liang, Wenjian Wang, Qiang Peng
          Southwest Jiaotong University, Chengdu, China

W-L2.2   A Fast Algorithm of 4-Point Floating DCT in Image/Video Compression
          Kai Tong[1], Yingke Gu[2], Guolin Li[1], Xiang Xie[2], Shouhao Liu[2], Kai Zhao[2],
          Zhihua Wang[2]
          [1]Department of Electronic Engineering, Tsinghua University, Beijing, China
          [2]Institute of Microelectronics, Tsinghua University, Beijing, China

W-L2.3   Semantic Classification Based Clothing Image Retrieval
          Zhiyuan Lu, Ling Shen, Yule Yuan, Yong Zhao
          Key Lab of Integrated Microsystem Science and Engineering Applications,
          Peking University Shenzhen Graduate School, Shenzhen, China

W-L2.4   A Sample of Correction for the Model Used Predicating Digital Television
          Signals in Urban Area
          Yixing Li[1, 2], Qi Zhang[1], Li Gao[2]
          [1]The College of Information and Engineering, Communication University of
          China (CUC), Beijing, China
          [2]Academy of Broadcasting Planning, Beijing, China

W-L2.5   Fast Template Matching with Partial Skipping Using Sub-template
          Qiao Zhang[1], Huijie Gao[1], Zhen Kang[2]
          [1]State Key Lab of Multi-spectral Information Processing Technology, Institute
          for Pattern Recognition and Artificial Intelligence, Huazhong Univ. of Sci. &
          Tech, Wuhan, China
          [2]School of Mathematic & Computer Science, Wuhan Polytechnic University,
          Wuhan, China

W-L2.6   Fast Ground Target Detection Method in Infrared Image Sequences
Hu Zhu[1], Lizhen Deng[2], Gaihua Wang[1], Gang Zhou[1], Xiaodong Bai[1]
[1] National Key Laboratory of Science and Technology on Multi-spectral Information Processing, Institute for Pattern Recognition and Artificial Intelligence, Huazhong University of Science and Technology, Wuhan, China
[2]College of Electrical & Electronic Engineering, Huazhong University of Science and Technology, Wuhan, China

W-L2.7   Target Recognition Method Based on Template Matching in Downward-looking Infrared Image
Hu Zhu[1], Lizhen Deng[2], Gang Zhou[1], Xiaodong Bai[1], Gaihua Wang[1]
[1]National Key Laboratory of Science and Technology on Multi-spectral Information Processing, Institute for Pattern Recognition and Artificial Intelligence, Huazhong University of Science and Technology, Wuhan, China
[2]College of Electrical & Electronic Engineering, Huazhong University of Science and Technology, Wuhan, China

W-L2.8   Design of M-Channel Uniform Linear-Phase Filter Banks with Near-Perfect-Reconstruction Property
Wei Zhong[1, 2], Xuemei Xie[2], Guangming Shi[2], Bin Peng[2], Qin Zhang[1]
[1]Key Lab of Media Audio & Video of Ministry of Education, Communication University of China, Beijing, China
[2]Key Lab of Intelligent Perception and Image Understanding of Ministry of Education, Xidian University, Xi'an, China

W-L2.9   A DCT-domain Compressed Images Registration Approach
Xiangyu Yu[1], Hengyu Zhao[2], Tao Zhang[3]
[1]School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China
[2]School of Journalism and Communication, South China University of Technology, Guangzhou, China
[3]Department of Physics & Electronic Information Science, Guiyang University, Guiyang, China

W-L2.10   Image Retrieval Using Accurate Approximated Inverse Document Frequency of Geometry-Preserving Visual Phrases
Fangyuan Wang[1,2], Shuwu Zhang[1]
[1]High-Tech Innovation Center, Institute of Automation, Chinese Academy of Sciences, Beijing, China
[2]WaSu Media Group Co.Ltd, Hangzhou, China

W-L3   Language and Speech Processing (Papers#:10)
Chairs: Yousheng Xia, College of Mathematics and Computer Science, Fuzhou University, Fuzhou, China
Rui Wang, Shanghai University, China.
Location: Dynasty Room 3

W-L3.1   Temporal Alignment Algorithm for Electropalatographic and Acoustic Signals in Long Utterances
Yinghao Li[1], Xiaosheng Pan[2]
[1]Foreign Languages College, Yanbian University, Yanji, China
[2]College of Information, Mechanical and Electrical Engineering, Shanghai Normal University, Shanghai, China

W-L3.2   Selection of Negative Pool for PR-SVM in Language Recognition
Weiwei Liu, Weiqiang Zhang, Jia Liu
Tsinghua National Laboratory for Information Science and Technology, Department of Electronic Engineering, Tsinghua University, Beijing, China

W-L3.3   Label Transform Based Cross-Language Speaker Adaptation in Bilingual (Mandarin-English) TTS
Yongjin So, Jia Jia, Yongxin Wang, Lianhong Cai
Key Laboratory of Pervasive Computing, Ministry of Education, Tsinghua National Laboratory for Information Science and Technology（TNList）, Department of Computer Science and Technology, Tsinghua University, Beijing, China

W-L3.4   A Dynamic Gap Dimension Reduction Approach for High Order N-GRAM Phonotactic Language Recognition
Weiwei Liu, Weiqiang Zhang, Jia Liu
Tsinghua National Laboratory for Information Science and Technology, Department of Electronic Engineering, Tsinghua University, Beijing, China

W-L3.5   Speaking Rate Estimation for Multi-Speakers
Yong Wu, Qianhua He, Yanxiong Li
School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China

W-L3.6   Fast Speech Enhancement Using A Novel Noise Constrained Least Square Estimation
Yousheng Xia
College of Mathematics and Computer Science, Fuzhou University, Fuzhou, China

W-L3.7   Fast Multi-Channel Colored Noise Reduction Algorithm Using A Novel Statistical Data Fusion Estimation
Yousheng Xia
College of Mathematics and Computer Science, Fuzhou University, Fuzhou, China

W-L3.8   Research on Voice Activity Detection in Burst and Partial Duration Noisy Environment
Chunyi Guo[1], Runzhi Li[2], Ming Fan[1], Kejun Liu[3]
[1]School of Information Engineering, Zhengzhou University, Zhengzhou, Henan, China
[2]Henan Provincial Key Lab on Information Network, Zhengzhou University, Zhengzhou, China
[3]Institute of Naval Equipment, Beijing, China

W-L3.9　　Special Estimation Algorithm of AR Model
　　　　　Haiyan Wu, Xiaoqun Zhao, Xiaolei Han
　　　　　School of Electronics and Information, Tongji University, Shanghai, China
　　　　　Laboratory of Modern Acoustics of MOE, Nanjing University, Nanjing, China

W-L3.10　Total Variability Factors Combination for Speaker Verification
　　　　　Jin Li, Wu Guo, Lirong Dai
　　　　　University of Science and Technology of China, Hefei, China

W-P1　　**Language and Speech Processing (Papers#:4)**
　　　　　Computer Graphic and Virtual Reality (Papers#:8)
　　　　　Chairs: Xuzhi Wang, Shanghai University, China.
　　　　　　　　　Liang Liu, Shanghai University, China.
　　　　　 Location: Dynasty Room

W-P1.1　　A Hybrid Method to Segment Words
　　　　　Yubiao Dai, Xueli Ren
　　　　　Department of Computer Science and Engineering, QuJing Normal University, Qujing, China

W-P1.2　　Syntactic Structure Feature Analysis and Classification Method Research
　　　　　Wenlian Zhan, Zhulin Shen
　　　　　School of Foreign Languages, Hunan International Economics University, Changsha, China

W-P1.3　　Features for Phoneme Independent Speaker Identification
　　　　　Jianglin Wang, An Ji, Michael T. Johnson
　　　　　Speech and Signal Processing Laboratory, Department of Electrical and Computer Engineering, Marquette University, Milwaukee, USA

W-P1.4　　Multichannel Speech Recognition using Distributed Microphone Signal Fusion Strategies
　　　　　Marek B. Trawicki[1], Michael T. Johnson[1], An Ji[1], Tomasz S.Osiejuk[2]
　　　　　[1]Department of Electrical and Computer Engineering, Speech and Signal Processing Laboratory, Marquette University, Milwaukee, USA
　　　　　[2]Department of Behavioural Ecology, Adam Mickiewicz University, Poznán, Poland

W-P1.5　　Realization of Flood Simulation Visualization Based on OpenGL
　　　　　Xinxin Li, Wanggen Wan, Li Li, Ximin Zhang, Chao Gan, Xiaoqing Yu
　　　　　School of Communication and Information Engineering, Shanghai University, Shanghai, P.R.China
　　　　　Institute of Smart City, Shanghai University, China
　　　　　Shanghai HanPan Information S&T Ltd, Shanghai, China

W-P1.6   Using OpenSceneGraph to Simulate the Dynamic Flooding Effect
          Xinxin Li, Wanggen Wan, Li Li, Ximin Zhang, Chao Gan, Xiaoqing Yu
          School of Communication and Information Engineering, Shanghai University,
          Shanghai, P.R.China
          Institute of Smart City, Shanghai University, China
          Shanghai HanPan Information S&T Ltd, Shanghai, China

W-P1.7   A Pathfinding Algorithm in Real-time Strategy Game Based on Unity3D
          Jie Hu, Wanggen Wan, Xiaoqing Yu
          School of Communication and Information Engineering, Shanghai University,
          Shanghai, P.R.China
          Institute of Smart City, Shanghai University, China
          Shanghai HanPan Information S&T Ltd, Shanghai, China

W-P1.8   A Segmentation Progressive Mesh Compression Method
          Haifeng Yu, Junli Chen,Wanggen Wan, Rui Wang, Xiaoqing Yu
          School of Communication and Information Engineering, Shanghai University,
          Shanghai, P.R.China
          Institute of Smart City, Shanghai University, China
          Shanghai HanPan Information S&T Ltd, Shanghai, China

W-P1.9   Virtual Reality Platform for Smart City Based on Sensor Network and OSG
          Engine
          Jie Hu, Wanggen Wan, Rui Wang, Xiaoqing Yu
          School of Communication and Information Engineering, Shanghai University,
          Shanghai, P.R.China
          Institute of Smart City, Shanghai University, China
          Shanghai HanPan Information S&T Ltd, Shanghai, China

W-P1.10   The Management of Dual Threads in Large Scale City Roaming Based on OSG
          Ximin Zhang[1,2,3,4], Wanggen Wan[1,4], Feng Guo[1,3,4], Xueli Zhou[1,3,4], Xiaoqing
          Yu[1]
          [1]School of Communication and Information Engineering, Shanghai University,
          Shanghai, China
          [2]Department of Physics, Henan Institute of Education, Zhengzhou, China
          [3]Shanghai HanPan Information S&T Ltd, Shanghai, China
          [4]Institute of Smart City, Shanghai University, Shanghai, China

W-P1.11   The 3D Holographic Projection Technology Based on Three- dimensional
          Computer Graphics
          Weiying Li
          Department of Digital Media Arts, Shanghai JianQiao College,Shanghai, China

W-P1.12   Virtual Campus Construction on The Web Services
          Peiying Fan
          Network Center, Shanghai Jianqiao College, Shanghai, China

15:30-15:45 Coffee Break

15:45-17:45 Oral Session (31 papers in 3 rooms)

W-L4   Audio and Music Processing (Papers#:3)
Image Processing (Papers#:7)
Chairs: Gang Xu, North China Electric Power University, Beijing, China.
        Xiuli Ma, Shanghai University, China.
Location: Dynasty Room 1

W-L4.1   Human Detection and Tracking Using Apparent Features under Multi- cameras
with Non-overlapping
Lu Tian, Shengjin Wang, Xiaoqing Ding
Department of Electronic Engineering, Tsinghua University, Beijing, China

W-L4.2   An Improved Adaptive Rood Pattern Search Algorithm Based on Temporal
and Spatial Correlation
Chunchun Chen, Junming Shan, Eryan Yang
School of Communication and Information Engineering, Shanghai University,
Shanghai, China

W-L4.3   An Efficient Region-Adaptive Stereo Matching Algorithm
Lin Chen, Mingang Chen, Xiao Lin, Lizhuang Ma
Department of Computer Science and Engineering, Shanghai Jiaotong
University, Shanghai, P.R. China

W-L4.4   Moving Target Tracking based on Adaptive Background Subtraction and
Improved Camshift Algorithm
Gang Xu, Dong Zhao, Qi Zhou, Ding Huang
North China Electric Power University, Beijing, China

W-L4.5   Research on LED Screen Brightness Detection Algorithm
Yunfeng Xu, Yan Zhang
College of Information Science and Engineering, Hebei University of Science
and Technology, Shi Jia Zhuang, China

W-L4.6   Separation and Extracting the Interference Structures of Moving Acoustic
Sources with A Single Vector Hydrophone
Wangsheng Lin, Guolong Liang, Jin Fu, Guangpu Zhang
Science and Technology on Underwater Acoustic Laboratory, Harbin
Engineering University, Harbin, China

W-L4.7   Human Motion Segmentation Based on Low-Rank Representation
Xiangyang Wang, Chao Gan, Ying Wang
School of Communication & Information Engineering, Shanghai University,
Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

W-L4.8   Noise Removal of Audio Clips for Fingerprint Matching
Yunhui Wang, Xiaoqing Yu, Wengen Wang, Wanggen Wan, Ram Swaminathan
Shool of Communication and Information Engineering, Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

W-L4.9   Compressed Sensing in Audio Signals and It's Reconstruction Algorithm
Shuai Yu, Rui Wang, Wanggen Wan, Linfeng Du, Xiaoqing Yu
School of Communication and Information Engineering, Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

W-L4.10   3D Reconstruction and Interaction for Smart City based on World Wind
Rui Wang, Linbo Jin, Ren Xiao, Shuilin Guo, Shuying Li
School of Communication and Information Engineering, Shanghai University, Shanghai, China

W-L5   **Computer Graphic and Virtual Reality (Papers#:8)**
Audio and Music Processing (Papers#:2)
Chairs: Mengyao Zhu, Shanghai University, China.
          Qiuyu Zhu, Shanghai University, China.
Location: Dynasty Room 2

W-L5.1   Design and Implementation of Lunar Surface Inspection Simulation and Validation System
Qunshan Shi[1,2], Qing Xu[1], Chaozhen Lan[1] , Guangjie Gu[3], Ke Ma[4]
[1]Zhengzhou Institute of Surveying and Mapping, Zhengzhou, China
[2]Science and Technology on Aerospace Flight Dynamics Laboratory, Beijing, China
[3]65015 Troops, Dalian, Liaoning, China
[4]69027 Troops, Xinjiang, Urumqi, China

W-L5.2   Star Skeleton for Human Behavior Recognition
Fan Zhang, Li Guo, Haixian Lu, Shu Gui, Jinkui Li
Department of Electronic Science and Technology, University of Science and Technology of China, Hefei, China

W-L5.3   Ship Motion Modeling and Simulation in Ship Handling Simulator
Xiufeng Zhang, Yicheng Jin, Yong Yin, Hongxiang Ren, Xiuwen Liu
Navigation College, Dalian Maritime University, Dalian, China

W-L5.4   Study on Spatial Interpolation Method and Its Application
Hua Xu[1], Qiang Wu[2], Hongzhuan Lei[2], Shiyong Li[2]
[1]Beijing Institute of Petrochemical Technology, Beijing, China
[2]China University of Mining and Technology, Beijing, China

W-L5.5   Multi-view Stereoscopic Angle Model and It's Application
Hao Cheng, Ping An, Hejian Li, Zhijiang Zhang, Zhaoyang Zhang
School of Communication and Information Engineering, Shanghai University, Shanghai, China

W-L5.6   A Dynamical Loading of Large Scale 3D City Based on OSG
Ximin Zhang[1, 2,3,4], Wanggen Wan[1,4], Feng Guo[1,3,4], Xueli Zhou[1,3,4], Xiaoqing Yu[1]
[1]School of Communication and Information Engineering, Shanghai University, Shanghai, China
[2]Department of Physics, Henan Institute of Education, Zhengzhou, China
[3]Shanghai HanPan Information S&T Ltd, Shanghai, China
[4]Institute of Smart City, Shanghai University, Shanghai, China

W-L5.7   Reconstructing Curve on the Surface with Extreme Learning Machines
Zhenghua Zhou[1,2], Wanggen Wan[1], Xueli Zhou[1]
[1]School of Communication and Information Engineering, Shanghai University, Shanghai 200072, China
[2]Department of information and mathematics Sciences,China Jiliang University,Hangzhou 310018,China

W-L5.8   3D Visualization for Heart Model from Point Clouds
Jinbo Li[1,2,3], Xiuli Ma[1,2,3], Yangyang Jia[1,2,3], Xueli Zhou[1,2,3]
[1]School of Communication and Information, Shanghai University, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd, Shanghai, China

W-L5.9   An Efficient Cutting Method for 3D Endocardial Geometric Model
Xueli Zhou[1,2,3,4], Wanggen Wan[1,4], Yanan Wang[1,3,4], Jinbo Li[1,3,4], Yangyang Jia[1,3,4]
[1]School of Communication and Information Engineering, Shanghai University, Shanghai, 200072, China
[2]School of Physics and Electronic Engineering, Changshu Institute of Technology, Changshu, 215500, China
[3]Shanghai HanPan Information S&T Ltd, Shanghai, China
[4]Institute of Smart City, Shanghai University, China

W-L5.10   Audio Fingerprint Based on Spectral Flux for Audio Retrieval
Wengen Wang, Xiaoqing Yu, YunHui Wang, Ram Swaminathan
[1]Shool of Communication and Information Engineering, Shanghai University, Shanghai, China
[2]Institute of Smart City, Shanghai University, Shanghai, China
[3]Shanghai HanPan Information S&T Ltd, Shanghai, China

W-L6   Language and Speech Processing (Papers#:7)
Multimedia SOC Design (Papers#:4)
Chairs: Xiangyang Wang, Shanghai University, China.
          Rui Wang, Shanghai University, China.
Location: Dynasty Room 3

W-L6.10   Research of Graphics Acceleration Based on Embedded System
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W-L6.11   Adaptive Algorithm for Time Delay Estimation in the Indoor Reverberant Environment
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Shanghai Travel and Tours Guide

Located at the center of the mainland's coastline, Shanghai has long been a major hub of communications, transportation, and international exchange. The municipality covers an area of 6,341 square kilometers and has a population of more than 13.5 million. Shanghai is China's largest economic comprehensive industrial base, and a famous historical and cultural city.

Visitors to Shanghai are not only dazzled by the modern metropolis and gateway to a developing China, but are also able to immerse themselves in the unique Shanghai culture, a combination of Chinese and Western elements. Colorful festivals and celebrations dot the yearly Shanghai activities calendar, such as the Shanghai Nanhui Peach Blossoms Festival, Shanghai International Tea Culture Festival and Shanghai China International Art Festival.

The Bund

The well-known Bund is a must for visitors to Shanghai. Fifty-two buildings lining the narrow shoreline of the Huangpu River offer a living exhibition of Gothic, Baroque, Roman, Classic Revival and Renaissance architectural styles, as well as combinations of Chinese and Western styles. They are also a condensation of the recent history of the city. The wide embankment offers ample room for strolling and is used by locals for morning exercises and evening gatherings. In the evening, colorful lights illuminate the area and create a shimmering image deserving of the name Pearl of the Orient.

The Yu Gardens

The Yu Gardens are a classical landscape in the Southern Chinese style with a history of more than 400 years. Pavilions, halls, rockeries and ponds display the finest in landscaping from the Southern style as seen in the Ming and Qing dynasties. More than 40 landscapes were ingeniously separated by latticed walls, winding corridors, and lattice windows.

Nanjing Road

Nanjing Road East, honored as "China's No. l Street", has become an all-weather pedestrian arcade. Shops and restaurants provide products and services with their own characteristics, making it an ideal place that integrates shopping, restaurants, amusement and sightseeing.

Jin Mao Tower

With 88 stories reaching a height of 420.5 meters and 290,000 square meter construction area, Jin Mao Tower, which literally means "Gold Luxuriance Building" in Chinese, is a perfect combination of traditional Chinese architectural style and the world's modern architectural technology.

The first two floors are a capacious and bright lobby. From the third to the 50th floor are spacious offices, which are open-plan (column-free) with a floor-to-floor height of 4 meters and a floor-to-ceiling height of 2.7m. The 51st and 52nd floors are mechanical rooms. The Grand Hyatt Shanghai hotel occupies floors from 53 to 87. It's the world's tallest five-star hotel in terms of distance from the ground, which boasts a 152m barrel-vaulted atrium that is lined with 28 annular well-illuminated corridors and staircases arrayed in a spiral. The 88th floor houses the Skywalk, a 1,520-square-meter indoor observation deck, which is the tallest and biggest one of its kind in the Chinese mainland. It offers a panoramic view of Shanghai and a topside view of the hotel atrium below.

Shanghai Science and Technology Museum

Shanghai Science and Technology Museum (SSTM) that located in Pudong's huamu area is an important base in Shanghai for science education and spiritual civilization construction, and national AAAA tourist site as well. The whole building is magnificent: the spiral unsymmetrical structure that high in the West and lower in the East symbolizes the development of nature, human and technology; huge glass curtain wall stands for the open,

transparent and close to the public; the vitelline ball in the middle hall implies the life-breeding in the space; and the heavy roof reflects the unavoidable historic mission that SSTM committed.

The Orient Pearl TV Tower

The Orient Pearl TV Tower is 468 meters high, the tallest in Asia and third tallest in the world. It faces the Bund across the Huangpu River. When viewed from the Bund, the tower and the Nanpu and Yangpu bridges create a vivid imagery known as "two dragons playing with a pearl." The sphere at the top has a diameter of 45 meters and is 263 meters above ground. The observation deck in the sphere offers a sweeping view of the city. The revolving restaurant is set at 267 meters above Pudong New Area. The dance ball, piano bar and 20 karaoke rooms, at 271 meters, are also opened to the public. The penthouse, which sits at 350 meters, has an observation deck, meeting room, and coffee shop. The tower integrates broadcasting technologies with sightseeing, catering, shopping, amusement, and accommodations. It has become the symbol of the city and a major tourist attraction in Shanghai.

People's Square

People's Square has become the political and cultural center in Shanghai since 1994, when it was rebuilt. In and around the square are a massive fountain named the Light of Huangpu River, 10,000 square meters of lawns, six groups of relief carvings that depict the history of Shanghai, the New Shanghai Museum, the offices of the municipal government, an underground shopping plaza, the Shanghai Grand Theater and the Shanghai Exhibition Center.

Hua Ting Hotel

Hua Ting Hotel & Towers is a five three-star hotel, located in the heart of the city's booming commercial centre, Xu Jia Hui. Conveniently situated with excellent transport links, including the metro service and the city ring road located right outside the main entrance, and major department stores, offices, bars and restaurants are within walking distance.

The Hua Ting Hotel & Towers comprises 1008 rooms and 56 suites. The hotel has the best exhibition, meeting and conference facilities in town including a grand ballroom that seat 1500 with simultaneous translation service available. The hotel also provides a fully equipped 24 hours Business Center.

Chinese Address Cards

Hua Ting Hotel
Address：1200 Caoxi Road North, Xuhui Area, Shanghai, China
Tel：86-21-64391000
华亭宾馆
地址：上海市徐汇区曹溪北路 1200 号
电话：86-21-64391000

Hua Ting Guest House
Address：2525 Zhongshan West Road, Xuhui Area, Shanghai, China
Tel：86-21-64391818
南华亭宾馆
地址：上海市徐汇区中山西路 2525 号
电话：86-21-64391818

Han Ting Hotel
Address：2277 Zhong Shan West Road, Xuhui District, Shanghai, China
Tel：86-21-61675589
汉庭连锁宾馆
地址：上海市徐汇区中山西路 2277 号
电话：86-21-61675589