IEEE PacificVis 2009

April 20 - 23, 2009, Beijing, China

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WELCOME

IEEE PacificVis 2009

IEEE Pacific Visualization Symposium 2009
April 20-23, 2009
Beijing, China
Website:http://vis.pku.edu.cn/pvs2009
Sponsored by the **IEEE Visualization and Graphics Technical Committee**

IEEE Pacific Visualization Symposium 2009 is held at Peking University, Beijing, China from April 20 to 23, 2009, following the great success of the first IEEE Pacific Visualization Symposium held in Kyoto, Japan, in March 2008.

PacificVis is an IEEE VGTC sponsored international visualization symposium held in the Asian-Pacific region, with the objective to foster greater exchange between visualization researchers and practitioners, and to draw more researchers in the Asian-Pacific region to enter this rapidly growing area of research.

Symposium Themes

- Feature extraction
- Flow visualization
- GPU based visualization
- Graph drawing
- Information visualization
- Large data visualization
- Illustration techniques
- Multi-field visualization
- Multi-resolution techniques
- Parallel visualization
- Perception in visualization
- Software visualization
- Time-varying visualization
- Usability and visualization systems
- Uncertainty visualization
- Vector/Tensor field visualization
- Visual analytics
- Visualization applications
- Visual-based knowledge discovery
- Visual data mining
- Volume visualization and modeling

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Computer Network Information Center, Chinese Academy of Sciences

ICT 中国科学院计算技术研究所 INSTITUTE OF COMPUTING TECHNOLOGY, CHINESE ACADEMY OF SCIENCES

BH VRLAB

NSFC 国家自然科学基金委员会 National Natural Science Foundation of China

LABS hp HP Labs China

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Hongbin Zha	Peking University, China

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Zeyao Mo	Institute of Applied Physics and Computational Mathematics, China
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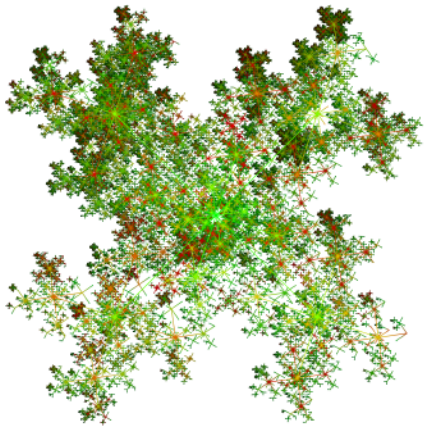

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Hsu-Chun Yen	National Taiwan University, Taiwan
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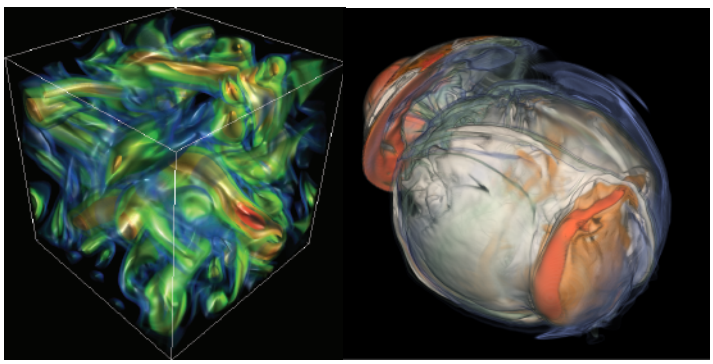

AT A GLANCE

Mon. April 20, 2009 Day 1

8:00 - 8:30 **Registration**

9:00 - 9:30 **Tutorial 1**
Fundamentals and Frontiers of Visual Analytics
Room 2129, Science Building No. 2, Peking University

9:00 - 9:30 **Tutorial 2**
Graph Visualization
Room 2736, Science Building No. 2, Peking University

14:00 - 14:30 **Registration**

14:00 - 14:30 **Tutorial 3**
Multidimensional Visualization 2009: New Shapes, Insights and Applications
Room 2129, Science Building No. 2, Peking University

14:00 - 14:30 **Tutorial 4**
Interactive Methods in Scientific Visualization
Room 2736, Science Building No. 2, Peking University

Tue. April 21, 2009 Day 2

8:00 - 8:30 **Registration**

8:30 - 9:00 **Welcome**

9:00 - 9:30 **Keynote**
Knots, Maps, and Tiles: Three Visual Puzzles
Professor Jarke van Wijk
Technische Universiteit Eindhoven, Netherlands

10:30 - 11:00 **Coffee Break**

11:00 - 11:30 **Paper Faster Forward**

11:30 - 12:00 **Paper Session 1**
Feature Extraction and Tracking
Chair: Xiaoru Yuan

12:30 - 13:00 **Lunch Break**

14:00 - 14:30 **Registration**

14:00 - 14:30 **Paper Session 2**
Information Visualization I
Chair: Seokhee Hong

15:30 - 16:00 **Coffee Break**

16:00 - 16:30 **Paper Session 3**
Visualization Systems
Chair: Zeyao Mo

17:30 - 18:00 **Poster Fast Forward**

AT A GLANCE

Wed. April 22, 2009 Day 3

Registration

Paper Session 4
Information Visualization II
Chair: Takayuki Itoh

Coffee Break

Paper Session 5
Feature Extraction and Tracking
Chair: Huamin Qu

Lunch Break

Registration

Paper Session 6
Visualization Applications
Chair: Koji Koyamada

Lab visit

Banquet
Dining hall in Guanghua New Building, Peking University

Thu. April 23, 2009 Day 4

Paper Session 7
Volume Visualization
Chair: Qunsheng Peng

Coffee Break

Capstone
Introduction to Processing and Visualization of Chang'e-1 Lunar Exploration Data
Professor Zesheng Tang

Awarding Ceremony & Closing Remarks

Lunch Break

Visualization Application Workshop 2009 Paper Sessions

Discussion

8:00 - 8:30
8:30 - 9:00
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21:30 - 22:00

MONDAY APRIL 20

Tutorial 1
Fundamentals and Frontiers of Visual Analytics

Presenters
Jim Thomas
(Director, National Visualization and Analytics Center, PNNL, USA)
David Ebert
(Director, Purdue Regional Visualization and Analytics Center, Purdue University, USA,)

09: 00 a .m. - 12:30 p.m.
Room 2129,
Science Building No. 2, Peking University

Visual Analytics is the science of analytical reasoning facilitated by visual interfaces. This is an emerging field of study that brings talents from many diverse disciplines including statistics, mathematics, information, knowledge, and library sciences, knowledge representation and synthesis, scientific and information visualization, cognitive and perceptual sciences, communications, decision sciences and more. The demand for visual analytics is being stimulated by new requirements for analytics of massive complex information spaces in science, commerce, home, energy, environment, security, and almost any domain that deals with complex, large information sources that require human judgment to “detect the expected and discover the unexpected”. Jim and David will present the new needs for science and technology, referenced from the recent book Illuminating the Path: the Research and Development Agenda for Visual Analytics, http://nvac.pnl.gov/. We will also discuss the driving new characteristics of interaction and suggest the top ten technical challenges for visual analytics, enlisting comments and recommendations. We will present current examples of select research projects, early application deployments and evaluation methods.

Tutorial 2
Graph Visualization

Presenters
Guseppe Liotta and Walter Didimo
(Università degli Studi di Perugia, Italy)

09: 00 a .m. - 12:30 p.m.
Room 2736,
Science Building No. 2, Peking University

Graph Visualization is at the heart of many information visualization systems, since it addresses the problem of efficiently conveying the structure of relational data that are typically modeled as graphs. This tutorial gives an introduction to the area of Graph Visualization, surveys some fundamental algorithmic techniques for visualizing graphs, and discusses issues of algorithm engineering and implementation.

Tutorial 3
Multidimensional Visualization 2009: New Shapes, Insights and Applications

Presenters
Alfred Inselberg
(Tel Aviv University, Israel)
Pei Ling Lai
(Southern Taiwan University of Technology)
Heejo Lee
(Korea University, Korea)

14:00 p.m. - 17:30 p.m.
Room 2129,
Science Building No. 2, Peking University

Learn the most recent concepts, intuition and skills for applications to multidimensional problems. The presentation includes Visual & Automatic Data Mining, Statistics, Computer Vision, Collision Avoidance for Air Traffic Control, Geometric Modeling, Decision Support, Detecting Network Intrusions, Merging Machine Learning with Visualization & Data Mining, concluding with teaching tips and research directions.

Tutorial 4
Interactive Methods in Scientific Visualization

Presenters
Jens Krueger
(University of Utah, USA)
Christof Rezk-Salama
(Universitaet Siegen, Germany)
Christian Dick, Jens Schneider
(Technische Universitaet Muenchen, Germany)

14:00 p.m. - 17:30 p.m.
Room 2736,
Science Building No. 2, Peking University

We will present an introductory tutorial on interactive methods in scientific visualization including talks about volume rendering, vector field visualization and terrain rendering. Additionally, one talk will cover strategies for interactive out-of-core rendering of very large data sets. Each talk starts with a brief introduction into the topics in general, and then focuses on GPU-based visualization methods as well as their implementations on recent graphics hardware. These methods will not only be presented as slides and videos but will also be demonstrated live. The course notes will not only include the slides and videos presented in the talks but also demo applications as well as open-source code.

TUESDAY APRIL 21

Registration open
08: 00 a .m. - 10:00 p.m.
14: 00 a .m. - 16:00 p.m.

Welcome
09: 00 a.m. - 09:15 a.m.

Keynote
09: 15a .m. - 10:30 p.m.

Speaker
Professor Jarke van Wijk
Technische Universiteit Eindhoven, Netherlands

Knots, Maps, and Tiles: Three Visual Puzzles
*For more information, please go to Page 9.

Coffee Break
10: 30 a.m. - 11:00 a.m.

Paper Faster Forward
11: 00 a.m. - 11.30 a .m.

Paper Session 1
Feature Extraction and Tracking
11: 30 a.m. - 12:45 p.m.
Chair: Xiaoru Yuan

Visualizing Time-Varying Features with TAC-based Distance Fields
Teng-yok Lee, Han-Wei Shen
(Ohio State University, USA)

Dual Streamline Seeding
Olufemi Rosanwo, Steffen Prohaska,
Christoph Petz, Ingrid Hotz, Hans-Christian Hege
(Zuse Institute Berlin, Germany)

Interactive Feature Extraction and Tracking By Utilizing Region Coherency
Chris Muelder, Kwan-Liu Ma
(University of California at Davis, USA)

Lunch Break
12.45 p.m. - 14.00 p.m.

Paper Session 2
Information Visualization I
14:00 p.m. - 15:40 p.m.
Chair: Seokhee Hong

An Organization Topographic Map for Visualizing Business Hierarchical Relationships
Rieko Otsuka
(Hitachi Ltd., Japan)

Visualizing Metrics on Areas of Interest in Software Architecture Diagrams
Alexandru Telea, Heorhiy Byelas
(University of Groningen, Netherlands)

HiMap: Adaptive Visualization of Large-Scale Online Social Networks
Lei Shi, Shixia Liu, Nan Cao, Weihong Qian, Li Tan
(IBM China Research Laboratory, China)
Guodong Wang
(Tsinghua University, China)
Jimeng Sun, Ching-Yung Lin
(IBM T. J. Watson Research Center, USA)

Toward Effective Insight Management in Visual Analytics Systems
Yang Chen, Jing Yang, William Ribarsky
(University of North Carolina at Charlotte, USA)

Paper Session 3
Visualization Systems
16:10 p.m. - 17:25 p.m.
Chair: Zeyao Mo

Visual Support for the Understanding of Simulation Processes
Rieko Otsuka
Andrea Unger, Heidrun Schumann
(Universitaet Rostock, Germany)

Optimized Data Transfer for time-dependent, GPU-based Glyphs
Sebastian Grottel, Guido Reina, Thomas Ertl
(Universitaet Stuttgart, Germany)

Out-of-Core Volume Rendering for Time-Varying Fields Using a Space-Partitioning (SPT) Tree
Zhiyan Du, Yi-Jen Chiang
(Polytechnic Institute of New York University, USA)
Han-Wei Shen
(Ohio State University, USA)

Poster Fast Forward
17:25 p.m. - 17:55 p.m.

WEDNESDAY APRIL 22

Registration open
08: 00 a .m. - 10:00 p.m. 14: 00 a .m. - 16:00 p.m.

Paper Session 4
Information Visualization II
09: 00 a.m. - 10:40 a.m.
Chair: Takayuki Itoh

Point-based Tree Representation - A New Approach for Large Hierarchies
Hans-Jörg Schulz, Heidrun Schumann, Steffen Hadlak
(University of Rostock, Germany)

A Visual Canonical Adjacency Matrix for Graphs
Hongli Li
(Pfizer, Inc., USA)
Georges Grinstein
(University of Massachusetts Lowell, USA)

Evaluation of Symbol Contrast in Scatterplots
Jing Li, Jarke van Wijk
(Technische Universiteit Eindhoven, Netherlands)

A Self-adaptive Treemap-based Technique for Visualizing Hierarchical Data in 3D
Abon Chaudhuri, Han-Wei Shen
(Ohio State University, USA)

Coffee Break
10:40 a.m. - 11:10 a.m.

Paper Session 5
Graph Drawing
11.10 a.m. - 12.50 p.m.
Chair: Huamin Qu

TugGraph: Path-Preserving Hierarchies for Browsing Proximity and Paths in Graphs
Daniel Archambault
(INRIA, France)
Tamara Munzner
(University of British Columbia, Canada)
David Auber
(LaBRI Laboratoire bordelais de recherche en informatique, France)

A Hybrid Space-Filling and Force-Directed Layout Method for Visualizing Multiple-Category Graphs
Takayuki Itoh
(Ochanomizu University, Japan)
Chris Muelder, Kwan-Liu Ma
(University of California at Davis, USA)
Jun Sese
(Ochanomizu University, Japan)

Extending the Spring-Electrical Model to Overcome Warping Effects
Yifan Hu
(AT&T Labs Research, USA)
Yehuda Koren
(Yahoo! Research, USA)

A Graph Reading Behavior: Geodesic-Path Tendency
Weidong Huang, Peter Eades, Seokhee Hong
(University of Sydney, Australia)

Lunch Break
10:40 a.m. - 11:10 a.m.

Paper Session 6
Visualization Applications
14:00 p.m. - 15.40 p.m.
Chair: Koji Koyamada

Visualizing Diffusion Tensor Imaging Data with Merging Ellipsoids
Wei Chen
(Zhejiang University, China)
Song Zhang
(Mississippi State University, USA)
Steve Correia
(Brown University, USA)
David F. Tate
(Harvard Medical School, USA)

Fast and Sleek Glyph Rendering for Interactive HARDI Data Exploration
Tim Peeters, Vesna Prckovska, Markus van Almsick, Anna Vilanova, Bartter Haar Romeny
(Technische Universiteit Eindhoven, Netherlands)

Correlation Study of Time-Varying Multivariate Climate Data Sets
Jeffrey Sukharev, Chaoli Wang, Kwan-Liu Ma
(University of California at Davis, USA)
Andrew T. Wittenberg
(National Oceanic and Atmospheric Administration, USA)

Visualization of Signal Transduction Processes in the Crowded Environment of the Cell
Martin Falk, Michael Klann, Matthias Reuss, Thomas Ertl
(Universitaet Stuttgart, Germany)

Lab visit
16:00 p.m. - 18:00 p.m.

Banquet
19:00 p.m. - 21:30 p.m.
Dining hall in Guanghua New Building

THURSDAY APRIL 23

Paper Session 7
Volume Visualization
09: 00 a.m. - 10.40 a .m.
Chair: Qunsheng Peng

Visibility-Driven Transfer Functions
Carlos Correa, Kwan-Liu Ma
(University of California at Davis, USA)

Contextual Picking of Volumetric Structures
Peter Kohlmann, Stefan Bruckner
(Vienna University of Technology, Austria)
Armin Kanitsar
(AGFA HealthCare, Austria)
Eduard Gröller
(Vienna University of Technology, Austria)

Structure-Aware Viewpoint Selection for Volume Visualization
Yubo Tao, Hai Lin, Hujun Bao
(Zhejiang University, China)
Feng Dong, Gordon Clapworthy
(University of Bedfordshire, UK)

Moment Curves
Daniel Patel
(University of Bergen, Norway)

Coffee Break
10:40 a.m. - 11:00 a.m.

Capstone
11: 00 a.m. - 12:10 p.m.

Speaker
Professor Zesheng Tang
Macao University of Science and Technology, Macao
Introduction to Processing and Visualization of Chang'e-1 Lunar Exploration Data
*For more information, please go to Page 9.

Awarding Ceremony & Closing Remarks
12: 10 a.m. - 12:30 p.m.

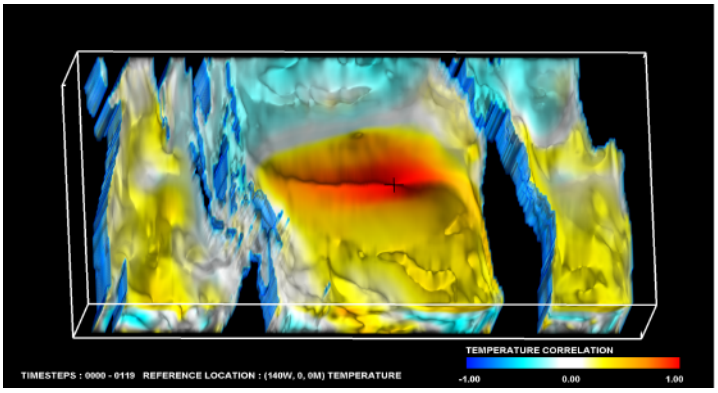
Lunch Break
12:30 p.m. - 14.00 p.m.

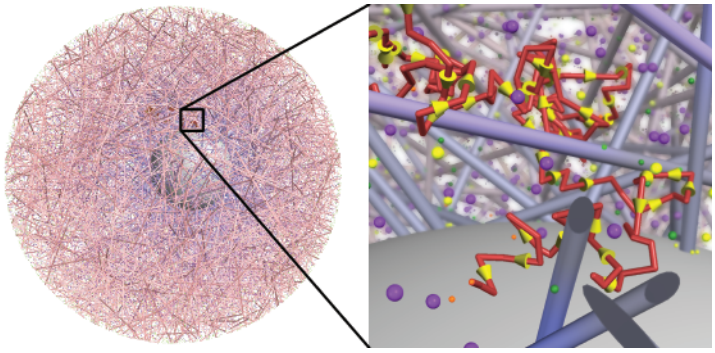
Visualization Application Workshop 2009
Collocated with IEEE PacificVis 2009
April 23, 2009
Peking University, Beijing, China
website: http://vis.pku.edu.cn/visworkshop09

A 2009 visualization workshop on applications will be collocated with IEEE PacificVis'09. In this workshop, we will focus on visualization techniques that draw on aspects of interactive visualization and their applications.

Workshop Paper Sessions
14:00 p.m. – 17:50 p.m.

Discussion
17:50 a.m. - 18:30 p.m.





KEYNOTE & CAPSTONE

Keynote

Knots, Maps, and Tiles: Three Visual Puzzles

09: 15 a.m. - 10:30 a.m. Tue. April 21, 2009

Professor Jarke van Wijk
Technische Universiteit Eindhoven, Netherlands

Abstract

Visualization aims at providing insight to its users. Now and then I am a user myself, and use visualization trying to solve a puzzle and to satisfy my curiosity. Simple questions turn out to be challenging problems, leading to a personal quest for their solution and resulting in intriguing images and animations. In my presentation I will present three such puzzles, all in the area of mathematical visualization. The first puzzle concerns knot theory. Take a string, and glue the ends together. It is easy to imagine a orientable surface that has this string as its boundary: a disk, bounded by a ring. Now, make a knot in the string, and glue the ends together again. Amazingly, in any case orientable surface exist that have this knotted string as their boundary. But what do these so-called Seifert surfaces look like The second puzzle is a classic one: How to map the globe without distortion. When a sphere is mapped to a plane, areas or angles can be depicted properly, but not both simultaneously. But what if we glue together a large large number of small, almost distortion free maps, which taken together cover the globe?

Bio

Jarke J. van Wijk received a MSc degree in industrial design engineering in 1982 and a PhD degree in computer science in 1986, both from Delft University of Technology. He worked at a software company and at the Netherlands Energy Research Foundation ECN before he joined the Technische Universiteit Eindhoven in 1998, where he became a full professor of visualization in 2001. His main research interests are information visualization, visual analytics, mathematical visualization, and flow visualizion, focusing on the development of new visual representations. He has co-authored more than 100 papers in the areas of visualization and computer graphics.

He has been paper cochair for IEEE Visualization (2003, 2004), IEEE InfoVis (2006, 2007), is currently paper cochair for IEEE VAST 2009, and he was general chair of IEEE InfoVis in 2008. He received the IEEE Visualization Technical Achievement Award in 2007 for his work on flow visualization, and best paper awards at IEEE InfoVis 2003 and IEEE Visualization 2005.

Capstone

Introduction to Processing and Visualization of Chang'e-1 Lunar Exploration Data

11: 00 a.m. - 12:15 p.m. Thu. April 23, 2009

Professor Zesheng Tang
Macao University of Science and Technology, Macao

Abstract

The Chang'e orbiter has successfully operated for more than 1 year. The exploration data sent back by Chang'e has been distributed to registered research institutes and universities after the pre-processing in National Astronomical Observatories of China (NAOC). This talk will introduce the processing and visualization of Chang'e-1 Lunar Exploration Data in Macau University of Science and Technology collaboratively with NAOC, CSSAR and Tsinghua University in the past few months.

In this talk, the scientific objectives and its related data of Chang'e-1 will be firstly introduced. In order to study the topology of Lunar surface, the enhancement and automatic seamless stitching of the images from CCD camera will be shown and the data processing and its visualization of the laser altimeter will be discussed, then, followed by the comparison with the results of other countries. For the purpose to analyze the abundance of different elements and its distribution on lunar surface, the analysis of γray spectrum and the distribution of Thorium will be presented. To probe the space environment in the vicinity of the moon, the preliminary results for visualization of measurement data of sonar wind will also be shown. At last, future works will be discussed.

Bio

TANG, Zesheng was graduated from the Department of Electricity in Tsinghua University, Beijing. After graduation, he was the lecturer, Associate professor, Professor in Department of Electricity, Department of Automation, Department of Computer Science and Technology in Tsinghua University. From 1991, he has been the supervisor of Ph. D students. From 1985 to 1986, he visited University of Michigan and XEROX PARC in USA to do research in Computer Graphics. He used to be the head of Department of Computer Science, the director of Institute of Computer Technology and the board member of academic committee in Tsinghua University. In April, 2004, he was elected as the Director of China Computer Federation. From 1997, he has been the senior member of IEEE.

In September, 2000, he was appointed as the Dean of Faculty of Information Technology, in Macau University of Science and Technology (MUST). From August, 2002 to June 2008, he was the Vice Rector of MUST. Now, he is a full professor and the academic consultant of this university.

POSTER

01. GPU-based Opaque Splatting for Unstructured Volume Rendering
ZhongMing Ding (Kyoto University)
Naohisa Sakamoto (Kyoto University)
Takuma Kawamura (Kyoto University)
Koji Koyamada (Kyoto University)

02. Phase Contrast Volume Rendering
Jie Liu (Peking University)
Xiaoru Yuan (Peking University)

03. Highly Parallel Unsteady Flow Line Integral Convolution
Yang Yu (Zhejiang University)
Zhanping Liu (Kitware Inc.)
Wei Chen (Zhejiang University)
Qunsheng Peng (Zhejiang University)

04. Lighting-Driven Volume Classification
Yunhai Wang (Supercomputing Center of Chinese Academy of Sciences)
YanGang Wang (Supercomputing Center of Chinese Academy of Sciences)
Huai Zhang (Laboratory of Computational Geodynamics)
GuiHua Shan (Supercomputing Center of Chinese Academy of Sciences)

05. Streamline Seed Points Placement Strategy for Multi-resolution 2D Flow Visualization
Hanqi Guo (Peking University)
Xiaoru Yuan (Peking University)

06. Visualizing the Invisible Mind: a Case Study in Visualization of Time-varying ERP Experimental Data
Mengdie Hu (Peking University)
Xiaoru Yuan (Peking University)
He Xiao (Peking University)

07. Visualization of Geomagnetic Model Combined with Google Earth
Fenglin Peng (WDC for Geophysics)
Dan Wang (WDC for Geophysics)
Maining Ma (WDC for Geophysics)
Chunhua Bai (Inst. Of Geology and Geophysics)
Zhenchang An (Inst. Of Geology and Geophysics)
Guohui Xia (Inst. Of Geology and Geophysics)
Wenyao Xu (Inst. Of Geology and E1 Geophysics)
Xiaoyang Shen (Inst. Of Geology and Geophysics)
Lijun Xing (WDC for Geophysics)

08. A Construction of real-time visualization system using a sensor network system
Norihisa Segawa (Iwate Prefectural University)
Naohisa Sakamoto (Kyoto University)
Koji Koyamada (Kyoto University)

09. Interactive Visualization of Intersections across Hierarchical Layers
Caixia Zhang (Google Inc.)
David Kao (NASA Ames Research Center)
Carrie Grimes (Google Inc.)

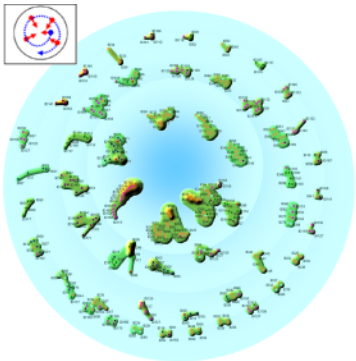
10. A Summarization and Visualization Technique for Traffic Paths
Hiroko Yabushita (Ochanomizu University)
Takayuki Itoh (Ochanomizu University)

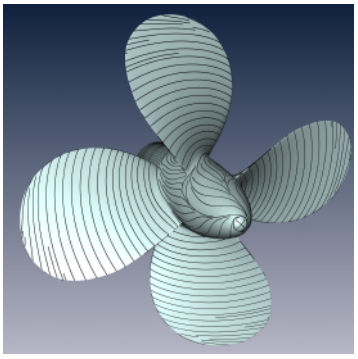
11. Journal Visualization by a Dual Hierarchical Data Visualization Technique
Kana Shiratori (Ochanomizu University)
Takayuki Itoh (Ochanomizu University)

12. A Similarity-Based 3D Time-Varying Data Visualization Technique
Maiko Imoto (Ochanomizu University)
Takayuki Itoh (Ochanomizu University)

13. Sensing and visualization of a dynamic scene using a network of laser scanners and video cameras
Jie Sha (Peking University)
Huijing Zhao (Peking University)
Jinshi Cui (Peking University)
Hongbin Zha (Peking University)

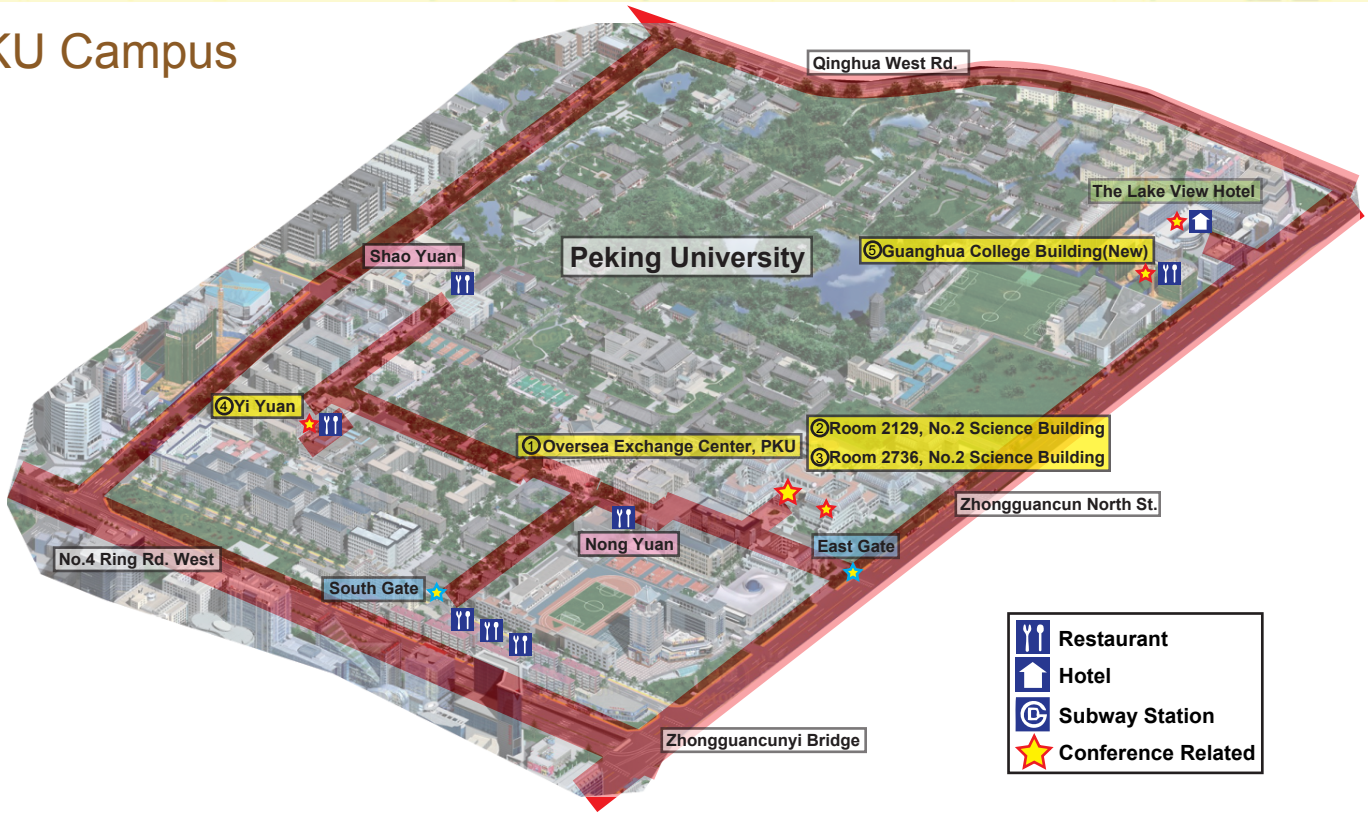
14. 3D Measurement of a Dynamic Urban Environment Using an Intelligent Vehicle
Long Xiong (Peking University)
Huijing Zhao (Peking University)
Zhigang Jiao (Peking University)
Jinshi Cui (Peking University)
Hongbin Zha (Peking University)



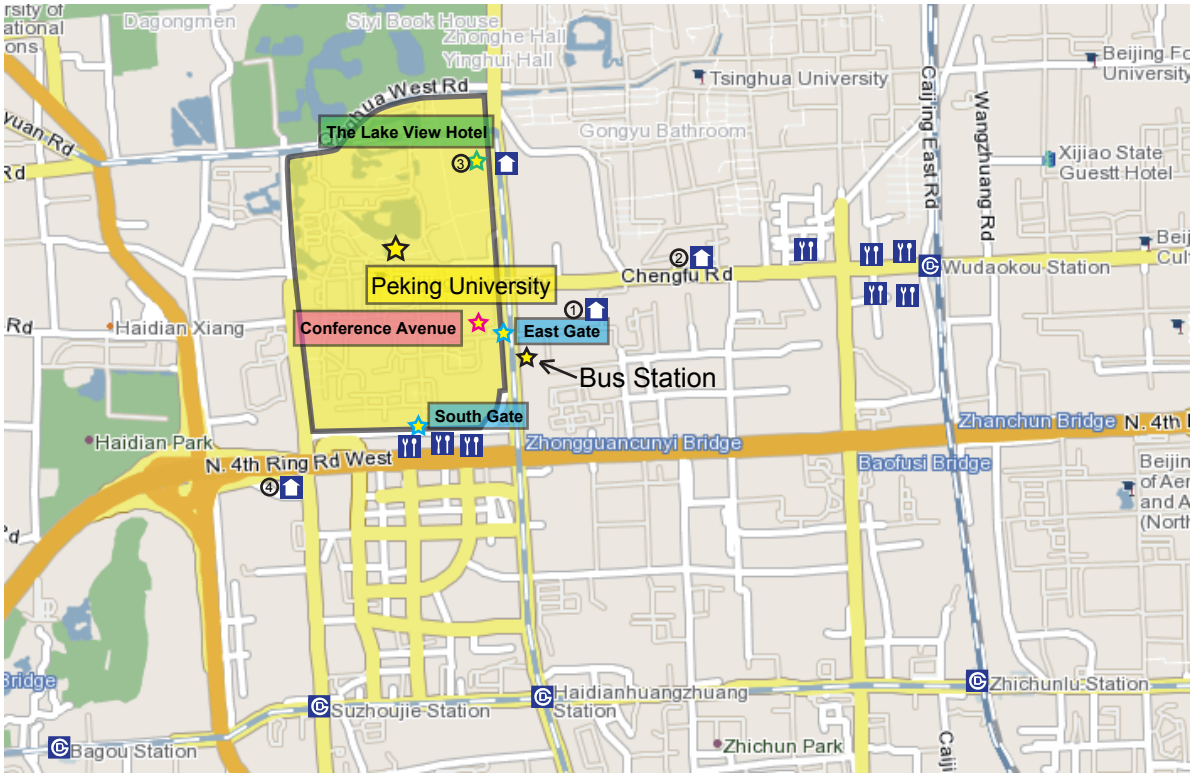


MAP

PKU Campus



① Main Conference Avenue	April 21~23, 2009
②&③ Tutorials	April 20, 2009
④ Lunch (Yi Yuan)	April 21~23, 2009
⑤ Banquet (Guanghua College New Building)	April 22, 2009



Hotels: ① Zhuangguanyuan Global Village
② Wenjin Hotel
③ The Lake View Hotel
④ Furamaxpress Hotel

IEEE PacificVis 2009
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Peking University
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DESIGN BY CHEN HENG