

Program

:invited paper n: not presented

Paper & Sketch Paper

Opening Remarks (24 October, 12:50~13:00)

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| 12:50 - 12:55 | President of The Virtual Reality Society of Japan
Makoto Sato / Tokyo Institute of Technology |
| 12:55 - 13:00 | ASIAGRAPH 2008 in Tokyo Program Chairs
Michitaka Hirose / The University of Tokyo, Hyun Seung Yang / KAIST, Zhigeng Pan / Zhejiang University |

Keynote 1 (24 October, 13:00~13:30)

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| 13:00 - 13:30 | Research on Ultra-Realistic Communication System in Japan
Kazumasa Enami / National Institute of Information and Communications Technology |
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Session 1 Space (24 October, 13:30~14:26)

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| 13:30 - 13:52 | From Music to Space - Through "The New Nakanoshima Station Project"
Kiyoshi Sey Takeyama / Kyoto University, Pierre Mariétan / Music composer |
| 13:52 - 14:04 | 'Archidemo' - Architecture and Urbanism in 3D-Internet Utilizing Multidisciplinary Collaboration
Hidenori Watanave / Tokyo Metropolitan University |
| 14:04 - 14:26 | Feature Guided Exploration for Map Building in Indoor Environment
Rong Xiong, Yong Liu, Jian Chu / Zhejiang University |

Session 2 Video (24 October, 14:26~15:32)

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| 14:26 - 14:48 | Ultra High Quality Computer Graphics(8k) as an Application of a High Presence Television System
Masaki Emoto / The University of Tokyo, Masaru Kanazawa / NHK, Yoichiro Kawaguchi / The University of Tokyo |
| 14:48 - 15:10 | Towards Effective Hierarchical Multi-level Parallelization for H.264 Encoder on Homogenous Multi-core Architecture
Haitao Wei, Junqing Yu, Jiang Li / HuaZhong University of Science and Technology |
| 15:10 - 15:32 | Why Do They Leave and Why Can He Stay: Analysis of Virtual Anchors in China's Television Media from the Perspective of Technology and Communication
Peiren Shao, Zhenbiao He / Zhejiang University |
| 15:32 - 15:40 | Coffee Break |

Session 3 Image Based Rendering (24 October, 15:40~17:10)

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| 15:40 - 16:02 | Survey on Image-Based Modeling in Augmented Reality
Zhang Shujun, Wu Wei / Beihang University |
| 16:02 - 16:24 | Automatic 3D World Construction from a Sparse Set of 2D Photographic Images
Takashi Aoki, Tomohiro Tanikawa, Michitaka Hirose / The University of Tokyo |
| 16:24 - 16:46 | A Generation Method of Watercolor Images Combining Short and Long Stroke Drawings
Yoshinori Shimakage, Junichi Sugita, Tokiichiro Takahashi / Tokyo Denki University |
| 16:46 - 16:58 | Reconstruction of Lost Spatial Sensation by the Reproduction of Movie Camera Work
Aoi Ito, Kunihiro Nishimura, Tomohiro Tanikawa, Michitaka Hirose / The University of Tokyo |

16:58 - 17:10 Image based Automatic Registration of 3D Range Data
Daniel Moldovan, Sumio Yano, Naomi Inoue / NICT Keihanna Lab.

Session 4 Computer Graphics 1 (24 October, 17:10~17:54)

17:10 - 17:32 Curvature Estimation of 3D Point Cloud Surfaces Through the Fitting of Normal Section Curvatures
Xiaopeng Zhang, Hongjun Li, Zhanglin Cheng / CAS

17:32 - 17:54 Realistic Static Grasp Force Rendering for Moving Virtual Objects
Yang Wen-zhen, Chen Wen-hua / Zhejiang Sci-Tech University, Gao Shu-ming, Wan Hua-gen, Liu Yu-sheng / Zhejiang University

n Real-Time Cartoon-Style Rendering of Coarse Mesh Surfaces
Lu Wang, Chun-mei Duan, Cheng-lei Yang, Xiang-xu Meng / ShanDong University

n A Robust Model-Based Approach for 3D Head Pose Tracking in Monocular Image Sequence
Jie Song, Gangqiang Zhao, Ling Chen, Gencai Chen / Zhejiang University

n Multi-feature method for region based image fusion
Xiao-Jun Wu / Jiangnan University, Dong-Xue Su / Jiangsu University of Science and Technology, Xiao-Qing Luo, Shi-Tong Wang / Jiangnan University, Jing-Yu Yang / Nanjing University of Science & Technology

Keynote 2 (25 October, 13:00~13:30)

13:00 - 13:30 Telexistence - Past, Present, and Future
Susumu Tachi / The University of Tokyo

Session 5 Display and Application (25 October, 13:30~14:58)

13:30 - 13:52 Mixed Reality Displays: Methods, Systems and Applications
Yongtian Wang, Dongdong Weng, Yue Liu, Jing Chen / Beijing Institute of Technology

13:52 - 14:14 Interactive Mobile MR Game based on Dynamic Environment and Intelligent Agent
Hyun S. Yang, Kyusung Cho, Jae min Soh, Gowun Jeong / KAIST

14:14 - 14:36 Making of TREE-ROBO - Full 3D Stereo Animation for Korea Pavilion in the 2005 WORLD EXPO, Aichi, Japan
Young-Min Park / Independence

14:36 - 14:58 An Immersive E-learning System using the Augmented Reality
Sangwon Um, Suwoong Lee, Junseok Lee / Electronics and Telecommunications Research Institute

14:58 - 15:10 Coffee Break

Session 6 Computer Graphics 2 (25 October, 15:10~17:00)

15:10 - 15:32 Collision Detection for Avatars in Virtual Environments: A Comparative Study
Norhaida Mohd Suaib, Abdullah Bade, Mohammad Shahrizal Sunar, Dzulkifli Mohamad, Daut Daman / Universiti Teknologi Malaysia

15:32 - 15:54 Adaptive Body Use of Multipede Driven by Coupled Neural Oscillators
Shogo Yonekura, Shinichiro Yagi, Yoichiro Kawaguchi / The University of Tokyo

15:54 - 15:16 Face Cartoon Rendering - A Unified Cartoon Rendering Approach based on Sample Learning
Yuehu Liu, Zhengwang Wu, Yu Shao, Daitao Jia / Xi'an Jiaotong University

15:16 - 16:38 Chinese Style Painting Processing and Generation Technique for of Video
Huaqing Shen / Zhejiang University

16:38 - 17:00 A Point Models Simplification based on Energy and Screen Resolution for Mobile Devices
Zhiying He, Xiaohui Liang / Beihang University

Session 7 Communication (25 October, 17:00~17:34)

- 17:00 - 17:22** Research of Representation of Deformed Image in Communication Using Video Chat - Verification Concerning Effectiveness of Deformed Representation in Video Chat
Mitsuharu Morine, Rikiya Tajiri, Yuji Miyake, Ryoma Yanagi, Takahiro Yamazaki, Yuko Abe, Koichi Sunada / Kyushu University
- 17:22 - 17:34** Tele-immersive Environment with Tiled Displays Wall System for Remote Collaborative Work
Yasuo Ebara / Kyoto University, Nobuyuki Kukimoto / KGT inc., Koji Koyamada / Kyoto University

Session 8 Display and Content (26 October, 10:15~11:15)

- 10:15 - 10:27** Particle Display System - A Real World Display with Physically Distributable and Input-Capable Pixels
Munehiko Sato, Atsushi Hiyama, Tomohiro Tanikawa, Michitaka Hirose / The University of Tokyo
- 10:27 - 10:39** A Basic Study on Font Design for Laser-plasma Scanning 3D Display
Kouta Ino, Takeshi Naemura / The University of Tokyo
- 10:39 - 10:51** Seismic Data Visualization in Tele-immersion Environment
Satoshi Oonuki / University of Tsukuba, Yoshisuke Tateyama / The University of Tokyo, Tetsuro Ogi / Keio University
- 10:51 - 11:03** Layer Contents Generation from Real World Scene using Three-Dimensional Measurement - Generation of Layered Real World Scene Contents using Motion and Focus Information
T. Takeshita, Y. Nakajima, M. K. Kim, S. Onogi, M. Mitsuishi, Y. Matsumoto / The University of Tokyo
- 11:03 - 11:15** Tracheal Intubation Instruction using Operation Sharing Mechanism
Masahide Yamaoka, Hideaki Kuzuoka, Jun Yamashita / University of Tsukuba

Session 9 Tangible Media (26 October, 11:15~12:11)

- 11:15 - 11:37** TangibleWeb - Filling the Gap between Virtual and Real Worlds
Jinwook Kim, Yong-Moo Kwon, Hyoung-Gon Kim, Heedong Ko / Korea Institute of Science and Technology
- 11:37 - 11:49** Tangible Earth - A Novel Interface for Astronomy Education
Jun Yamashita, Satoshi Nishikawa, Hideaki Kuzuoka / University of Tsukuba
- 11:49 - 12:11** Development of the Performance Robot
Byungho Yoon, Sonya S..Kwak, Bomi Kim, Yunkyoung Kim, Jaewook Kim, Hyojung Oh, Myungsuk Kim / KAIST
- 12:11 - 13:00** Lunch

Session 10 Art (26 October, 13:00~14:08)

- 13:00 - 13:22** Arts of Multilayer Structure Fish Robot
Yoichiro Kawaguchi / The University of Tokyo
- 13:22 - 13:34** Evaluation of the Interactive Computer Graphics that Reflects Cardiac Vagal Activity Estimated in Real-time
Fumiaki Iida, Tomohiro Akagawa, Takaaki Hashimoto, Yasuhiko Jimbo, Kiyoshi Takamasu, Yoichiro Kawaguchi, Kiyoshi Kotani / The University of Tokyo
- 13:34 - 13:56** Feeling, Touching and Hearing the Mirror Illusion - Interactive Art Work 'Heaven's Mirror'
Seunghyun Woo, Takafumi Aoki, Hironori Mitake, Naoki Hashimoto, Makoto Sato / Tokyo Institute of Technology
- 13:56 - 14:08** Heart-Beat Invader - Game Design to Promote Communication Between Two Users
Hiroko Nozawa, Takuji Narumi, Kunihiro Nishimura, Michitaka Hirose / The University of Tokyo

Session 11 Mobile (26 October, 14:08~15:06)

- 14:08 - 14:20** Wearable Forest - Designing Human-Wildlife Remote Interaction through Bioacoustic Interface
Hiroki Kobayashi, Ryoko Ueoka, Michitaka Hirose / The University of Tokyo,
- 14:20 - 14:32** Robust Real-Time Lifelog Display System Using Picture Processing
Jun'ichi Nakano, Takashi Aoki, Kunihiro Nishimura, Tomohiro Tanikawa, Michitaka Hirose / The University of Tokyo

14:32 - 14:54 Experience Sharing in Tangible Web based on Lifelog
Ig-Jae Kim, Sang Chul Ahn, Hyoung-Gon Kim / KIST

14:54 - 15:06 Absolute Field - The space reconstructed by memories of the people
Takuji Narumi / The University of Tokyo, Tomohiro Akagawa / Tokyo University of the Arts, Seong Young Ah, Michitaka Hirose / The University of Tokyo,

15:06 - 15:15 Coffee Break

Session 12 Multimodal Sensation (26 October, 15:15~16:25)

15:15 - 15:37 Virtual Bone Drilling for Dental Implant Training - Bone Drilling Simulation with Haptic Feedback
Kimin Kim, Jinah Park / Information and Communications University

15:37 - 15:49 Characteristics of Shear Tactile Stimulus by Rotating Contactors - Evaluation of the Shear Force Display (SFD)
Tomoyuki Yamaguchi, Yasushi Ikei / Tokyo Metropolitan University

15:49 - 16:01 Evaluation of Tactile Presentation in a 3D Space - Tactile/Force Presentation of the TextureExplorer
Kanao Nishimura, Yasushi Ikei / Tokyo Metropolitan University

16:01 - 16:13 A Study of Providing Colors to Change Olfactory Perception - Using "flavor of color"
Aiko Nambu, Takuji Narumi, Kunihiro Nishimura, Tomohiro Tanikawa, Michitaka Hirose / The University of Tokyo

16:13 - 16:25 Boundary between Bowls and Plates - Study of variance of categorical perception boundaries of objects
Shingo Sasahara, Takuro Kayahara / Miyagi University

Cutting Edge Poster (23 October~26 October)

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- 01 Application of LED Artificial Lighting System
Na Li, Zhenglie Cui, Tsutomu Iwasaki and Takashi Takeda / Kyushu University
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- 02 Enhanced Image Search Using Face Detection and Visual Queries
Gamhewage C. de Silva, Kiyoharu aizawa / The University of Tokyo
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- 03 Spatial Voice/Head-gesture Interaction System
Taiki Saitou, Yasushi Ikei / Tokyo Metropolitan University, Yusuke Nakao / NEC Corporation
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- 04 3D interface for the CyberTable - Manipulation Characteristics by the CyberDice - A 3D Input Object
Ryo Takahashi, Yasushi Ikei / Tokyo Metropolitan University
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- 05 Smart Wear Prototype using Conductive Thread
Ryoko Ueoka / The University of Tokyo, Atsushi Masuda, Tetsuhiko Murakami / Industrial Technology Center of Fukui Prefecture, Michitaka Hirose / The University of Tokyo
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- 06 "wavers": A Texture Preceptible Vibration System
Takashi Suzuki, Kunihiro Nishimura, Tomohiro Tanikawa, Yasuhiro Suzuki, Michitaka Hirose / The University of Tokyo
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- 07 Analysis of Visual and Haptic Information Flow in Human Central Nervous System with Wearable Haptic Display for Telexistence
Riichiro Tadakuma / National Institute of Advanced Industrial Science and Technology, Kenjiro Tadakuma / The University of Electro-Communications, Kazuhito Yokoi / National Institute of Advanced Industrial Science and Technology
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- 08 Co-evolution of Shapes and Behavior in an Artificial life
Haruhiko Matsubara, Yoichiro Kawaguchi / The University of Tokyo
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- 09 Expression of fluid by real-time CFD and development of interface - For Easier Understanding of Fluid Dynamics
Seiichi Ariga / J.F.Oberlin University, Makoto Iida, Chuichi Arakawa / The University of Tokyo
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- 10 "structured creature": A Prototype of Moving Space Structure
Yosuke Ushigome, Kunihiro Nishimura, Michitaka Hirose / The University of Tokyo
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Entertainment Science and Digital Gallery (23 October~26 October)

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- 01 Volflex+
Hiroo Iwata ,Hiroaki Yano, Yu-uki Enzaki / University of Tsukuba
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- 02 Development of a Visuo-tactile 50inch Display for Soft and Hard Sensation - Magnetosphere 2
Kuniko Kushiya / Tokyo Metropolitan University, Shinji Sasada, Masashi Yasuda, Yuji Suzumura / Japan Electronics Collage
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- 03 Heart-to-Heart Communication
Kiyoshi Kotani / The University of Tokyo, Sinji Sasada / Japan Electronics College, Yoichiro Kawaguchi, Fumiaki Iida / The University of Tokyo
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- 04 Research of representation of deformed image in communication using video chat - Verification concerning effectiveness of deformed representation in video chat
Mitsuharu Morine, Rikiya Tajiri, Yuji Miyake, Ryoma Yanagi, Takahiro Yamazaki, Yuko Abe, Koichi Sunada,Ph.D / Kyushu University Kyushu University
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