NICOGRAPH International 2004 in Taiwan (May 4,5)

Dayl A.M. (4th May)

Opening Talk: President of National Chiao Tung University, Professor Chun-Yen Chang

Chair: Seiichi Nishihara(University of Tsukuba, Japan)

SessionI Motion Generation (09:30-11:00)

Chair: Seiichi Nishihara(University of Tsukuba, Japan)

"Expression Imitator"

Ke-Sen Huang, Yi-Chuan Tseng and Shi-Nine Yang (National Tsing Hua University, Taiwan)

"An Automatic Generation of Virtual Human Behaviors Based on Psychology"

Nobuhiko Mukai, Haruki Kawakubo and Makoto Kosugi (Musashi Institute of Technology, Japan)

"Automatic Enhancement of Human Character Animation Based on Psychophysical Measures"
Tomoko Fujishima and Issei Fujishiro(Ochanomizu University, Japan)

"Autonomously Responding Virtual Human"

Hisashi Suyama, Yasuyuki Nanjo, Yukio Fukui and Seiichi Nishihara(University of Tsukuba, Japan)

"Generating Fallen Human Motion using Genetic Algorithm on ZMP Control"

Kousuke Anai and DongSheng Cai(University of Tsukuba, Japan)

"Simple and Realistic fish motion using a fish swimming theory"

Nozomu Oue and DongSheng Cai(University of Tsukuba, Japan)

SessionII 3D Modeling(11:15-12:00)

Chair: Mitsunori Makino(Chuo University, Japan)

"3D Model Generation of Mountain Terrain Based on Periodic B-Spline Curves"

Zhiyi Zhang, Kouichi Konno(Iwate University, Japan) and Yoshimasa Tokuyama(Tokyo Institiute of Polytechnics, Japan)

"Virtual Zen Garden Compared of Rocks and Moss: Design and Analysis"

Daisuke Sakuma and Dongsheng Cai(University of Tsukuba, Japan)

"Automatic Generation of Time-Varying Virtual Cities"

Masanobu Honda, Kazunori Mizuno, Yukio Fukui and Seiichi Nishihara(University of Tsukuba, Japan)

Dayl P.M. (4th May)

Invited TalkI(13:15-13:45)

Chair: Masayuki Nakajima(Tokyo Institute of Technology, Japan)

"Three-dimensional Polygon Morphing Techniques"

Tong-Yee Lee(National Cheng Kong University, Taiwan)

SessionIII Computer Graphics(13:45-15:00)

Chair: Tomoyuki Nishita(The University of Tokyo, Japan)

"Image-based Anisotropic Reflectance Modeling of Textile Fabrics based on Orthogonal Bi-directional Anisotropy"

Yuki Takeda, Shinsaku Toyoda, Hiromi T.Tanaka (Ritsumeikan University, Japan), Shintaro Takemura and Yoshiyuki Sakaguchi(Digital Fashion Ltd., Japan)

"Efficient Visibility Estimation Approach for Hierarchical Radiosity"

Chin-Chen Chang(Chung Hua University, Taiwan) and Zen-Chung Shih(National Chiao Tung University, Taiwan)

"A Visual Model of Lightning Lifecycle in Thunderclouds"

Batjargal Sosorbaram, Daiki Takeshita, Tadahiro Fujimoto and Norishige Chiba(Iwate University, Japan)

"Visual Simulation of Wood Weathering Involving Distortion and Cracks"

Xin Yin, Tadahiro Fujimoto and Norishige Chiba(Iwate University, Japan)

"Streaming techniques for Distributed Visualization of Space Weather Simulation in Computational Grid Environment"

Weifeng Tao and Dongsheng Cai(University of Tsukuba, Japan)

SessionIV Virtual Reality(15:15-16:00)

Chair: Shi-Nine Yang (National Tsing Hua University)

"A Case Study: Visualization by Tree Structure of Tiles on the CAVE for High Frequency Electromagnetic Wave Propagation in Communication Systems"

Mitsunori Makino, Xiaoyi Cao, Hiroshi Shirai and Shoji Shinoda(Chuo University, Japan)

"Real-Time Human Motion Analysis Based on Quantized Depth Map"

Masataka Imura(Nara Institute of Science and Technology, Japan), Toshiyuki Umeda, Benoit Macq(Universite Catholique de Louvain, Belgium) and Kunihiro Chihara(Nara Institute of Science and Technology, Japan)

"A new archiving system for TV studio sets using depth camera and global illumination"

Akihiko Shirai, Kiichi Kobayashi(NHK Engineering Service Inc., Japan), Masahiro Kawakita(NHK Science and Technical Research Labs., Japan), Suguru Saito and Masayuki Nakajima(Tokyo Institute of Technology, Japan)

DayII A.M. (5th May)

Invited TalkII(09:30-10:00)

Chair: Zen-Chung Shih(National Chiao Tung University, Taiwan)

"Virtual Reality Systems: now and future"

Masayuki Nakajima(Tokyo Institute of Technology, Japan)

SessionV Non-photorealistic Rendering(10:00-10:45)

Chair: Chin-Chen Chang (Chung Hua University)

"Creating Watercolor Style Images Using Painting Rules and Color Diffusion"

Henry Johan, Ryota Hashimoto and Tomoyuki Nishita (The University of Tokyo, Japan)

"Stone Drawing: A Style of Non-Photorealistic Rendering for Tree Images"

Yueh-Yi Lai and Wen-Kai Tai(National Dong Hwa University, Taiwan)

"Suibokuga-like Rendering for Three-Dimensional Geometric Models"

Youetsu Sato, Tadahiro Fujimoto(Iwate University, Japan), Kazunobu Muraoka(Tohoku Institute of Technology, Japan) and Norishige Chiba(Iwate University, Japan)

SessionVI Image and 3D Model Processing(11:00-12:15)

Chair: Wen-Kai Tai (National Dong Hwa University)

"Protein Function Prediction by Matching 3D Structural Data"

Chien-Cheng Chen, Jeng-Ting Tu, Pei-Ken Chang, Bing-Yu Chen, Rung-Huei Liang and Ming Ouhyoung(National Taiwan University, Taiwan)

"Watermarking 3D Polygonal Meshes Using Generalized Singular Spectrum Analysis"

Murotani Kohei and Sugihara Kokichi(University of Tokyo, Japan)

"Automated Landmarking of the 3D Human Head Model"

Yuka Kohno, Hiroki Yahara, Yukio Fukui, Seiichi Nishihara(University of Tsukuba, Japan), Masaaki Mochimaru and Makiko Kouchi (National Institute of Advenced Industrial Science and Technology, Japan)

"Geometry Image based Similarity Estimation for 3D Model Retrieval"

Hamid Laga, Hiroki Takahashi and Masayuki Nakajima (Tokyo Institute of Technology, Japan)

"Text Extraction from Natural Scenes based on Investigation of Color Information"

Xiaoheng Yang, Hiroki Takahashi and Masayuki Nakajima (Tokyo Institute of Technology, Japan)

Closing

Zen-Chung Shih(National Chiao Tung University, Taiwan)