

# **The International Workshop on Agent Technologies over Internet Applications**

Tamkang University, Taipei, Taiwan  
September 26 – 28, 2001

## **Final Program**

### **Session 1: Mobile Agent Technologies and Their Application**

Session Chair: Von-Wun Soo, National Tsing-Hua University, Taiwan, R.O.C.

#### **1. A Secure Mobile Intelligent Agent System**

Son Vuong and Peng Fu

The University of British Columbia, Canada

#### **2. Mobile Agent-bases Platform Supports to *e*-Market Place**

Ying-Hong Wang, Hua-Chien Chen, Shih-Wel Kao

Tamkang University, Taiwan, R.O.C.

#### **3. Virtual Internet Pets Based on Java-Enabled Mobile Agents**

Wen-Jing Hsu, Samridhi Ganeriwalla, Stuti Nautiyal, Sanju Sunny, Gautam Gupta

Nanyang Technological University, Singapore

#### **4. Shadowboard: an Agent-oriented Model-View-Controller (AoMVC)**

##### **Architecture for a Digital Self**

Steve Goschnick and Leon Steding

University of Melbourne, Australia

#### **5. Databases and Information Retrieval: Taking advantage of Mobile Agent Technology**

Rosane Maria Martins, Luci Pirmez and Luiz Fernando Rust da Costa Carmo

NCE/UFRJ - Núcleo de Computação Eletrônica Universidade Federal do Rio de Janeiro, Bratrain

## **Session 2: Agent Applications on Internet and Business**

Session Chair: Ying-Hong Wang, Tamkang University, Taiwan, R.O.C.

### **1. An Agent-Mediated Auction for Movie Tickets: A Case Study on Taipei City**

Vicnest Wang, Paul H.M. Chang, Von-Wun Soo

National Tsing-Hua University, Taiwan, R.O.C.

### **2. Autonomous Agents for Web Pages Filtering**

Flávia Coimbra Delicato, Luci Pirmez e Luiz Fernando, Rust da Costa Carmo

Federal University of Rio de Janeiro, Britain

### **3. A Personal Agent System for Office Environment**

Ay-Hwa Andy Liou , Huan-Chao Keh , and Kun-Yi Lin

Tamkang University, Taiwan, R.O.C.

### **4. Training Linear Text Classifier Using Gradient Forecasting Search Method for News Pages Classification**

Chih-Ming Chen and Hahn-Ming Lee

National Taiwan University of Science and Technology, Taiwan, R.O.C.

### **5. Mobile Agents over e-business**

Ying-Hong Wang, Chi-Ming Chung, An-Cheng Cheng, and Wen-Nan Wang

Tamkang University, Taiwan, R.O.C.

### **6. Automatic Topology Discovery Using Mobile Agents**

Hwa-Chun Lin, Chien-Hsing Wang

National Tsing Hua University, Taiwan, R.O.C.

# The 2001 International Workshop on Computer Graphics and Virtual Reality

Tamkang University, Taipei, Taiwan  
September 26 – 28, 2001

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### Section 1: Visualization

Chair: Yi-Ping Hung, Academic Sinica, Taiwan

#### 1. A Purely Image-Based Approach to Augmenting Panoramas with Object Movies

Yi-Ping Hung<sup>1,2</sup>, Chu-Song Chen<sup>1</sup>, Gregory Y. Tang<sup>2</sup>, Yu-Pao Tsai<sup>1</sup>, Chen-Fu Huang<sup>1,2</sup>, Szu-Wei Lin<sup>1,2</sup>, Chih-Han Yu<sup>1,2</sup>

<sup>1</sup> Academic Sinica, Taiwan

<sup>2</sup> National Taiwan University, Taiwan, R.O.C.

#### 2. Robust Template Matching Using Multiview Video for Head Modeling

Fu-Che Wu, Murphy Chien-Chang Ho, Ming Ouhyoung

Nation Taiwan University, Taiwan, R.O.C.

#### 3. Splatting Footprint Size Evaluation for Image-Based Rendering Using Camera Sampling Field

Ping-Hsien Lin and Tong-Yee Lee

National Cheng Kung University, Taiwan, R.O.C.

#### 4. Panorama-guided Visual Tracking and Its Application

Chu-Song Chen<sup>1</sup>, Wen-Ten Hsieh<sup>1,2</sup>, Hao-Ju Ho<sup>1,2</sup>, Jiun-Hung Chen<sup>1</sup>, Chiou-Shann Fuh<sup>2</sup>

<sup>1</sup>Institute of Information Science, Academic Sinica

<sup>2</sup>National Taiwan University, Taiwan, R.O.C.

#### 5. A 3D Visualization System of Diamonds

Lieu-Hen Chen and Jya-Shian Wang

National Chi Nan University, Taiwan, R.O.C.

## **Section 2: Virtual Reality and Applications**

Chair: Jiung-yao Huang, Tamkang University, Taiwan, R.O.C.

### **1. Planning Coordinated Motions for Multiple Virtual Human Crowds**

Tsai-Yen Li and Ying-Jiun Jeng

National Chengchi University, Taiwan, R.O.C.

### **2. Ritual in Virtual World**

Rung-Huei Liang

Shih-Chien University, Taiwan, R.O.C.

### **3. A Per-Levelly Controlled Progressive Modeling Algorithm for Streaming and LOD in Virtual Environments**

Shu-Kai Yang, Chin-Chen Chang, Ding-Zhou Duan, Ming-Fen Lin

Industrial Technology Research Institute, Taiwan, R.O.C.

### **4. The Synchronization Algorithm for Constructing CAVE system on the PC Cluster**

Jiung-yao Huang, Jia-Lin Chan, Hua-Hsen Bai

Tamkang University, Taiwan, R.O.C.

# **International Workshop on Cryptology and Network Security**

Tamkang University, Taipei, Taiwan  
September 26 – 28, 2001

## **Final Program**

### **Session 1: Cryptanalysis and Secret Sharing**

Chair: Chuan-Kun Wu, The Australian National University, Australia

#### **1. Cryptanalyses of Some Diffie-Hellman Typed Authenticated Key Agreement Protocols**

Chin-Chen Chang, Ya-Fen Chang  
National Chung Cheng University, Taiwan, R.O.C.

#### **2. A Fail-Stop Verifiable Secret Sharing Scheme**

Yi Mu, Vijay Varadharajan  
Macquarie University, Australia

#### **3. Nonlinear Secret Sharing Immune against Cheating**

Josef Pieprzyk<sup>1</sup>, Xian-Mo Zhang<sup>2</sup>  
<sup>1</sup>Macquarie University, Australia  
<sup>2</sup>University of Wollongong, Australia

#### **4. Generalized Multisecret Sharing Scheme Realizing Ordered Access Structures**

Chih-Yin Lin<sup>1</sup>, Tzong-Chen Wu<sup>2</sup>, Jing-Jang Hwang<sup>1</sup>  
<sup>1</sup>National Chiao Tung University, Taiwan, R.O.C.  
<sup>2</sup>National Taiwan University of Science and Technology, Taiwan, R.O.C.

#### **5. Cryptanalysis of Generalized Feistel Networks**

Wenling Wu, Ye-Ping He, Si-Han Qing  
Chinese Academy of Sciences, Beijing 100080, P.R. China

## **6. R2ML : A Roles and Rights Mark Up Language for Role Based Access Control in a J2EE Based Distributed E-commerce Environment**

Anthony Rhodes, William Caelli  
Queensland University of Technology, Australia

## **Session 2: Digital Signatures**

Chair: Ren-Junn Hwang, TamKang University, Taiwan

### **1.New Rabin-line Signature Scheme**

Chen Kefei, Weidong Qiu, Dong Zheng  
Shanghai Jiaotong University, China

### **2.A Fast Blind Signature Scheme**

Chun-I Fan<sup>1</sup>, Chin-Laung Lei<sup>2</sup>, Yu-Peng Chiu<sup>2</sup>  
<sup>1</sup>Chunghwa Telecom Co., Ltd., Taiwan, R.O.C.  
<sup>2</sup>National Taiwan University, Taiwan, R.O.C.

### **3.A Practical Key Changeable Digital Signature Scheme**

Wei-Bin Lee, Chen-Yi Chang  
Feng Chia University, Taiwan, R.O.C.

### **4.A New Proxy Multi-Signature Scheme**

Shin-Jia Hwang, Chiu-Chin Chen  
Chaoyang University of Technology

### **5.A Threshold-Verification Scheme to a Valid-Signature Using the Identity Check**

Shiuh-Jeng Wang<sup>1</sup>, Cheng-Hsing Yang<sup>2</sup>  
<sup>1</sup>Central Police University, Taiwan, R.O.C.  
<sup>2</sup> Kun-Shan University of Technology, Taiwan, R.O.C.

## **Sessions 3: Information Theory, Stream Ciphers and Information Hiding**

Chair: Kanta Matsuura, University of Tokyo, Japan

### **1.A Fast Exponentiation Using a Data Compression Method for Large Exponents**

Chin-Chen Chang, Yeu-Pong Lai  
Chung Cheng University, Taiwan, R.O.C.

## **2.A Dynamic Stego-scheme for Data Protection**

Chu-Hsing Lin<sup>1</sup>, Tien-Chi Lee<sup>2</sup>, Yi-Cheng Chen<sup>3</sup>

<sup>1</sup>Tunghai University, Taiwan, R.O.C.

<sup>2</sup>DigiCrypto Inc., R.O.C.

<sup>3</sup>ServiceInside Global Ltd., Taiwan, R.O.C.

## **3.Secure Evaluation of Modular Functions**

Marc Joye<sup>1</sup>, Pascal Paillier<sup>1</sup>, Sung-Ming Yen<sup>2</sup>

<sup>1</sup>Gemplus Card International Card Security Group, France

<sup>2</sup>National Central University, Taiwan, R.O.C.

## **4.Fast Finite Field Division Operation in $GF(2^m)$ for Efficient Elliptic Curve Cryptosystem**

Youn-Ho Lee<sup>1</sup>, Heeyoul Kim<sup>1</sup>, Byung-Chun Chung<sup>1</sup>, Jaewon Lee<sup>1</sup>, Young-Guk Ha<sup>2</sup>,  
Hyunsoo Yoon<sup>1</sup>

<sup>1</sup>Dept. of Electrical Engineering & Computer Science, KAIST, Korea

<sup>2</sup>Dept. of Electronic Commerce, ETRI

## **5.Echo Back in Implementation of Passphrase Authentication**

Kanta Matsuura,

University of Tokyo, Japan

## **6.An User Effient Fair E-cash Scheme without On-line Trusted Third Party**

Pei-Ling Yu<sup>1</sup>, Chin-Luang Lei<sup>1</sup>, Chin-I Fan<sup>2</sup>, Huei-Ju Chen<sup>1</sup>

<sup>1</sup>National Taiwan University, Taiwan, R.O.C.

<sup>2</sup>Chunghwa Telecom Co., Ltd. Taiwan, R.O.C.

# **The 2001 International Workshop on Multimedia Technologies, Architectures, and Applications**

Tamkang University, Taipei, Taiwan  
September 26 – 28, 2001

## **Final Program**

### **Session (Oral): Multimedia Architecture**

Session Chair: Jen-Shiun Chiang, Tamkang University, Taiwan, R.O.C.

#### **1. A Reconfigurable Architecture for DSP System-On-Chip**

Lan-Rong Dung, Yen-Lin Lee, Chun-Ming Wu

National Chiao Tung University, Taiwan, R.O.C.

#### **2. A Practitioner's Approach to Multi-Dimensional Indexing**

Qingqing Zhou<sup>1</sup>, Qing Li<sup>2</sup>, Wenyin Liu<sup>3</sup>, and Hongjinag Zhang<sup>3</sup>

<sup>1</sup>Renmin University, Beijing

<sup>2</sup>City University of Hong Kong

<sup>3</sup>Microsoft Research China, Beijing

#### **3. Integration of Applications into Digital television Environment**

Chengyuan Peng, Pablo Cesar, Prtri Vuorimaa

Helsinki University of Technology, Finland

#### **4. An Overlapped Row Column High Throughput DCT/IDCT Architecture for Real-Time Image and Video System**

Jen-Shiun Chiang and Yi-Fang Chiu

Tamkang University, Tamsui, Taiwan, R.O.C.

#### **5. A Novel Multi-Stage Sigma-Delta Modulator with Extending Bandwidth**

Jen-Shiun Chiang and Teng-Hong Chang

Tamkang University, Taiwan, R.O.C.

## **Session (Poster): Multimedia Technology and Architecture**

Session Chair: Jiann-Chyi Rau, Tamkang University, Taiwan, R.O.C.

### **1. CQPN: A Content-driven Petri-Net Model for Pre-orchestrated Multimedia Documents**

Yang-Hui Chang and Tein-Yaw Chung

Yuan Ze University, Taiwan, R.O.C.

### **2. Color-Based Segmentation for Image Retrieval with Progressive Wavelet Transform and Color Unifying**

Zhi-Xue Lin, Din-Yuen Chan, Been-Chian Chien

I-Shou University, Kaohsiung, Taiwan, R.O.C.

### **3. A Novel Structure for Low Power and High Performance Multimedia Processor**

Pao-Lung Chen<sup>1</sup>, Frank Tsai<sup>2</sup>, Chen-Yi Lee<sup>2</sup>

<sup>1</sup>Chin Min College of Technology and Commerce

<sup>2</sup>National Chiao Tung University, Taiwan, R.O.C.