

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



Based on the great success of 1st MUE 2007 conference, 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE 2008) will be the most comprehensive conference focused on the various aspects of advances in Multimedia and Ubiquitous Engineering. Multimedia and Ubiquitous is emerging rapidly as an exciting new paradigm to provide computing life services any time, any where. Our Conference provides a chance for academic and industry professionals to discuss recent progress in the area of multimedia and ubiquitous environment including models and systems, new directions, novel applications associated with the utilization and acceptance of ubiquitous computing devices and systems.

Conference Topics

Topics of relevance include but are not limited to the following areas.

1. Ubiquitous Computing and Beyond

- Ubiquitous Computing and Technology
- Ambient and Artificial Intelligence
- Context-Aware Ubiquitous Computing
- Parallel/Distributed/Grid Computing
- Novel Machine Architectures
- Semantic Web and Knowledge Grid
- Smart Home and Natural Interfaces

2. Multimedia Modeling and Processing

- AI and Soft Computing in Multimedia
- Computer Graphics and Simulation
- Content-Based Image Retrieval / QBE
- Medical Image and Signal Processing
- Multimedia Indexing and Compression
- Virtual Reality and Game Technology
- Current Challenges in Multimedia

3. Ubiquitous Services and Applications

- Protocols for Ubiquitous Services

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Ubiquitous Database Methodologies
Ubiquitous Application Interfaces
IPv6 Foundations and Applications
Smart Home Network Middleware
Ubiquitous Sensor Networks / RFID
U-Commerce and Other Applications
Database and Data Mining

4. Multimedia Services and Applications

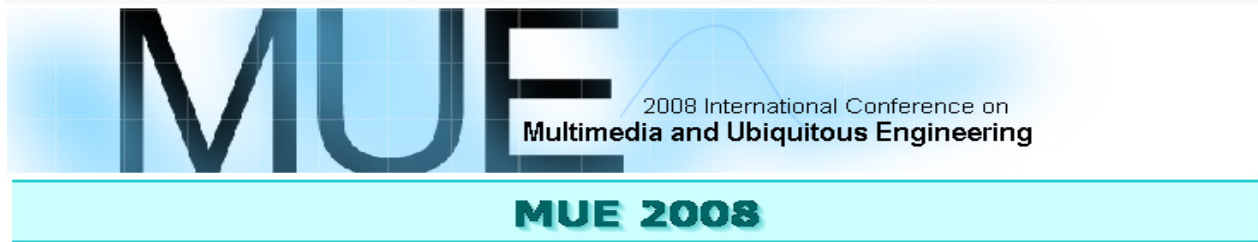
Multimedia RDBMS Platforms
Multimedia in Telemedicine
Multimedia Embedded Systems
Entertainment Industry
E-Commerce and E-Learning
Novel Multimedia Applications
Computer Graphics in Industry

5. Multimedia and Ubiquitous Security

Security in Commerce and Industry
Security in Ubiquitous Databases
Key Management and Authentication
Privacy in Ubiquitous Environment
Sensor Networks and RFID Security
Multimedia Information Security
Forensics and Image Watermarking

6. Other IT and Multimedia Applications

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Welcome Message from the Conference Organizers

Welcome to the 2008 International Conference on Multimedia and Ubiquitous Engineering (MUE 2008). On behalf of the conference committees, we thank you for your participation, and hope that you will enjoy the presentations and social programs offered in this conference.

Based on the great success of 1st MUE 2007 conference, 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE 2008) will be the most comprehensive conference focused on the various aspects of advances in Multimedia and Ubiquitous Engineering. Multimedia and Ubiquitous is emerging rapidly as an exciting new paradigm to provide computing life services any time, any where. Our Conference provides a chance for academic and industry professionals to discuss recent progress in the area of multimedia and ubiquitous environment including models and systems, new directions, novel applications associated with the utilization and acceptance of ubiquitous computing devices and systems. The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of Information Technology.

We are grateful in particular to the following speakers who kindly accepted our invitation and, in this way, helped to meet the objectives of the conference:

Han-Chieh Chao	National Ilan University, Taiwan
Stephen S. Yau	Arizona State University, USA
Weijia Jia	City University of Hong Kong, China
Hyoung Joong Kim	Korea University, Korea

The success of MUE 2008 would not have been possible without the huge support from our sponsors and the work of our chairs, and these are listed in the following pages. Moreover, we would like to thank the IMIS 2008, ForVUS 2008, UMS2008, WNGS 2008, and MUS 2008 workshop chairs for contributions that have added variety to the topics represented.

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With best regards,

Steering Chairs, General Chairs, and Program Chairs

Tai-hoon Kim (Hannam University, Korea)

Wai Chi Fang (NASA JPL, USA)

Jong Hyuk Park (Kyungnam University, Korea)

Jianhua Ma (Hosei University, Japan)

William I. Grosky (University of Michigan-Dearborn, USA)



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Welcome Message from the Program Co-chairs

We would like to extend our welcome and express our gratitude to all of the authors of submitted papers and to all of the attendees, for their contributions and participation.

In MUE 2008, the second international conference, 479 submitted papers it has attracted is very impressive. The international character of the conference is reflected in the fact that submissions came from 23 countries.

The submitted abstracts and papers went through a thorough reviewing process. As a result, 131 articles were accepted for the MUE 2008 proceedings published by IEEE, reflecting (but not limited to) the following areas:

1. Ubiquitous Computing and Beyond
Ubiquitous Computing and Technology
Ambient and Artificial Intelligence
Context-Aware Ubiquitous Computing
Parallel/Distributed/Grid Computing
Novel Machine Architectures
Semantic Web and Knowledge Grid
Smart Home and Natural Interfaces
2. Multimedia Modeling and Processing
AI and Soft Computing in Multimedia
Computer Graphics and Simulation
Content-Based Image Retrieval / QBE
Medical Image and Signal Processing
Multimedia Indexing and Compression
Virtual Reality and Game Technology
Current Challenges in Multimedia
3. Ubiquitous Services and Applications
Protocols for Ubiquitous Services
Ubiquitous Database Methodologies
Ubiquitous Application Interfaces
IPv6 Foundations and Applications

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Smart Home Network Middleware
Ubiquitous Sensor Networks / RFID
U-Commerce and Other Applications

4. Multimedia Services and Applications
 - Multimedia RDBMS Platforms
 - Multimedia in Telemedicine
 - Multimedia Embedded Systems
 - Entertainment Industry
 - E-Commerce and E-Learning
 - Novel Multimedia Applications
 - Computer Graphics in Industry
5. Multimedia and Ubiquitous Security
 - Security in Commerce and Industry
 - Security in Ubiquitous Databases
 - Key Management and Authentication
 - Privacy in Ubiquitous Environment
 - Sensor Networks and RFID Security
 - Multimedia Information Security
 - Forensics and Image Watermarking
6. Other IT and Multimedia Applications

And some papers were invited from Keynote Speakers, Chairs and Committee members to be included in our MUE 2008 proceedings. Achieving such a high quality of proceedings would have been impossible without the huge work that was undertaken by the International Program Committee members. We take this opportunity to thank them for their great support and cooperation.

Sincerely yours,

Dominik Slezak, Infobright Inc., Canada

Sang-Soo Yeo, Kyushu University, Japan

Ching-Hsien Hsu, Chung Hua University, Taiwan

Program Chairs



The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



Welcome Message from the Workshop Chairs

It is a great pleasure to present the technical programs of the workshops held in conjunction with the 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008), Hanwha Resort Haeundae, Busan, Korea. The main aim of these workshops is to bring together academics, industry researchers and practitioners to discuss and share experience on completed and on-going research activities in the areas of multimedia and ubiquitous systems, networks and applications. The workshops cover a range of topics including interactive multimedia & intelligent services, multimedia & ubiquitous services and security in multimedia and ubiquitous systems. The selected two workshops constitute an important extension of the main conference by providing a forum for discussions on focused areas than the main conference. We believe the forum will facilitate active discussions among researchers in multimedia and ubiquitous systems, services and applications.

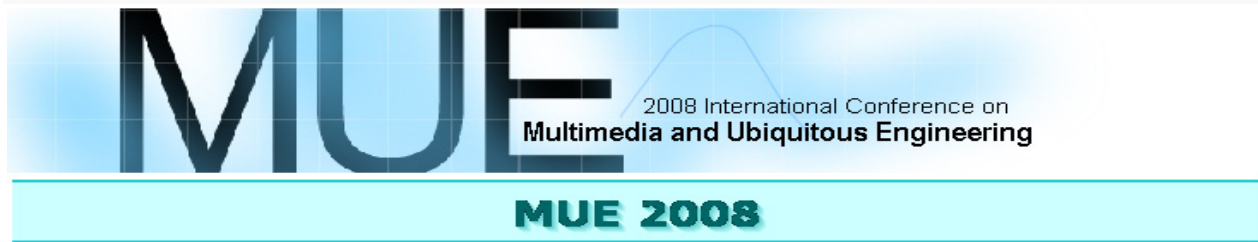
The two selected workshops held in conjunction with MUE 2008 are:

1. The 2nd International Workshop on Interactive Multimedia & Intelligent Services (IMIS 2008) Workshop
2. IPS/UMS/WNGS/MUS 2008 Workshop

Among the two successful workshops, IMIS 2008 focuses on interactive multimedia and intelligent services. The second workshop covers topics on ubiquitous multimedia services and security in ubiquitous multimedia systems. All the submitted papers have undergone rigorous review process by the technical program committee members for originality, contribution and relevance to the main themes of the conference. We have selected 32 best papers for presentation and publication in the conference proceedings.

As workshop chairs we wish to thank all the organizers of the workshops and the international technical committee members for their professional support. We would also like to express our gratitude to all Organizing Committee members of MUE 2008. In particular, we would like to thank the MUE 2008 General Co-Chairs Profs. Jong Hyuk Park, Jianhua Ma and William I. Grosky, and program Co-Chairs Sang-Soo Yeo, Ching-Hsien Hsu and Dominik Slezak. Profs. Jong Hyuk Park and Sang-Soo Yeo have continuously supported us during the organization of these workshops. Last but not least, we would also like to thank the steering committee Co-chairs,

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Profs. Tai-hoon Kim and Wai Chi Fang for coordinating the entire conference event.

Mieso Kabeto Denko, University of Guelph, Canada

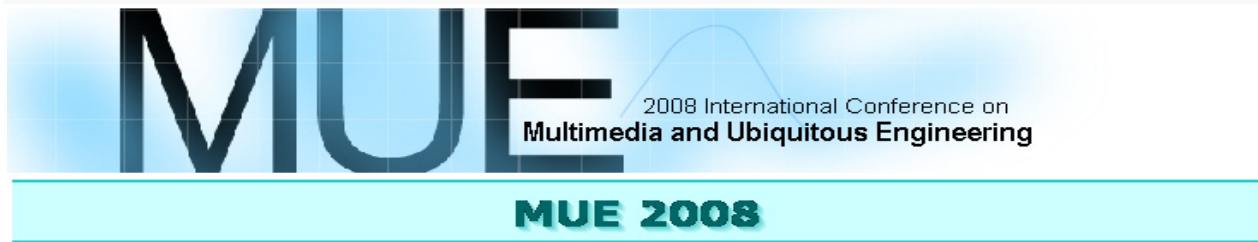
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Frode Eika, Sandnes Oslo University College, Norway



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Wai Chi Fang, NASA JPL, USA

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Ching-Hsien Hsu, Chung Hua University, Taiwan

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Hai Jin, HUST, China

Track 2. Multimedia Modeling and Processing

Shu-Ching Chen, Florida International University, USA

Track 3. Ubiquitous Services and Applications

Han-Chieh Chao, National Ilan University, Taiwan

Track 4. Multimedia Services and Applications

Zhiwen YU, Kyoto University, Japan

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Track 5. Multimedia and Ubiquitous Security

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Track 6. IT and Multimedia Applications

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Kuniaki Uehara, Kobe University, Japan
Norman Lin, Nagoya University, Japan
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Tae-Nam Cho, Woosuk University, Korea
Toshihiro Tabata, Okayama University, Japan

Track 6. IT and Multimedia Applications

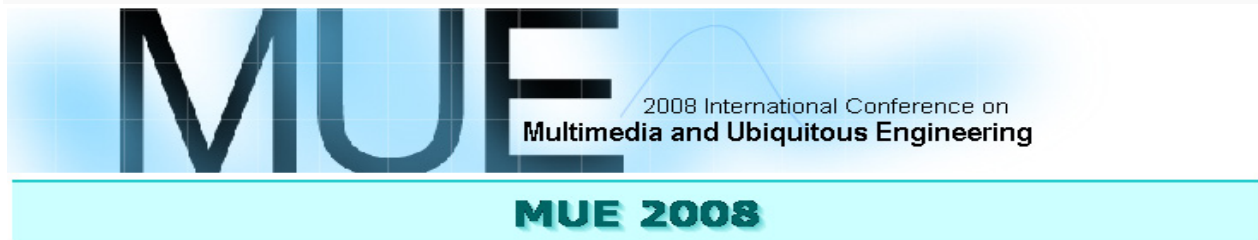
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Tomoo Inoue, University of Tsukuba, Japan
Tony Y. T. Chan, The University of Akureyri, Iceland
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Wolfgang Muller, Universitt Bamberg, Germany
Yuqing SUN, Shandong University, China
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Yongwei Zhu, Institute for Infocomm Research, Singapore

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The second International Workshop on Interactive Multimedia and Intelligent Services in Mobile and Ubiquitous computing (IMIS 2008)

Welcome to Pusan and the second International Workshop on Interactive Multimedia and Intelligent Services in Mobile and Ubiquitous computing (IMIS08)! We are very pleased that the workshop continues to attract high quality submissions from a diverse and international group of researchers.

With the proliferation of wireless technologies and electronic devices, there is a fast growing interest in Mobile and Ubiquitous Computing (MUC). MUC enables to create a human-oriented computing environment where computer chips are embedded in everyday objects and interact with physical world. This workshop focuses on the challenges and solutions for MUC with an emphasis on interactive multimedia and intelligent services. The workshop provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of MUC.

Most of submitted papers this year received three peer reviews from our program committee, comprising 32 members from academia and industry.

It is impossible to organize such a successful program without the help of many individuals. We would like to express our appreciation to the authors of the submitted papers, and to the program committee members, who provided timely and significant reviews.

We hope all of you enjoy IMIS08 and find this a productive opportunity to learn, exchange idea, make new contacts and renew old ones. May your visit also include some time to enjoy the charming city of Pusan.

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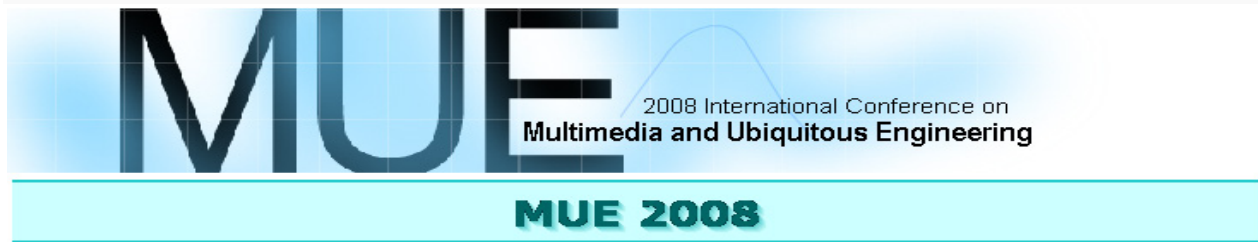
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Seungjin Park (University of Southern Indiana, USA)

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IPS/ UMS/ WNGS/ MUS 2008 Workshop

It is a great pleasure to welcome you to the 2008 IPS/UMS/WNGS/MUS workshop held in conjunction with the International Conference on Multimedia and Ubiquitous Engineering (MUE2008), Hanwha Resort Haeundae, Busan, Korea.

The workshop covers topics on ubiquitous multimedia services and security in ubiquitous multimedia systems. All the submitted papers have undergone a rigorous review process by the technical program committee members and external reviewers. We have selected 17 best papers for presentation and publication in the conference proceedings.

We would like to thank all people who directly or indirectly contributed to the success of this workshop. In particular, we would like to thank Prof. Sang-Soo Yeo for coordinating IPS 2008 and the organizers of UMS, WNGS and MUS for their efforts. We would also like to express our appreciation to all members of the TPC members for extending their professional support to the workshop. Last but not least, we would also like to thank all authors of IPS/UMS/WNGS/MUS for supporting the workshop by choosing it as a forum for reporting their quality research results.

Workshop Organizing Committee

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Laurence T. Yang (St. Francis Xavier University, Canada)
Sajid Hussain (Acadia University, Wolfville, Canada)
Deok Gyu Lee (ETRI, Korea)
Kyo-Il Chung (ETRI, Korea)
Hyoung Joong Kim (Korea University, Korea)
Stefanos Gritzalis (University of the Aegean, Greece)

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Dong Myung Shin (Korea Information Security Agency, Korea)
Eung-Nam Ko (Baekseok University, Korea)
Eun-Sun Jung (Samsung Advanced Institute of Technology, Korea)
Giuseppe De Pietro (ICAR-CNR, Italy)
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Invited Talk

Cross-Layer Design in 3G Wireless Networks and Beyond

Dr. Han-Chieh Chao

Professor & Dean,
College of Electrical Engineering & Computer Science,
Director,
Computer & IT Center,
National Ilan University, I-Lan, Taiwan, ROC

Abstract

The explosive development of internet and wireless communication has made personal communication more convenient. People can use a handy wireless device to transfer different kinds of data such as voice data, text data, and multimedia data. It is obvious that the increasing use of IP based technology would be the trend for the mobile communication services.

Multimedia streaming, video conferencing, and on-line interactive 3D games are expected to attract an increasing number of users in the future. Such bandwidth is not sufficient for these applications and would be the major challenge for wireless networks.

Although the traditional layered protocol stacks have been used for many years, they are not suitable for the next generation wireless network and the mobile system. Due to the time varying transmission of the wireless channel and the dynamic resource requirements of different application, the traditional approach to the mobile multimedia communication is full of challenges to meet the user requirement on performance and efficiency.

Cross-layer design is a new research topic that actively exploits the dependence between different protocol layers to obtain performance gains. We performed a survey and introduced the cross-layer issues in four research categories: application, mobility, QoS, and security.

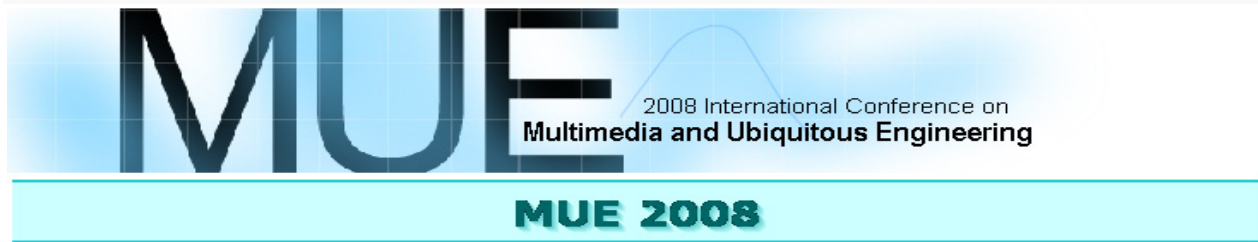
The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



About Dr. Han-Chieh Chao

Han-Chieh Chao is a joint appointed Full Professor of the Department of Electronic Engineering and Institute of Computer Science & Information Engineering. He also serves as the Dean of the College of Electrical Engineering & Computer Science and Director of Computer & IT Center for National Ilan University, I-Lan, Taiwan, R.O.C. His research interests include High Speed Networks, Wireless Networks, IPv6 based Networks, Digital Creative Arts and Digital Divide. He received his MS and Ph.D. degrees in Electrical Engineering from Purdue University in 1989 and 1993 respectively. He has authored or co-authored 4 books and has published about 140 refereed professional research papers. He has completed 50 MSEE thesis students. Dr. Chao has received many research awards, including Purdue University SRC awards, and NSC research awards (National Science Council of Taiwan). He also received many funded research grants from NSC, Ministry of Education (MOE), RDEC, Industrial Technology of Research Institute, Institute of Information Industry and FarEasTone Telecommunications Lab. Dr. Chao has been invited frequently to give talks at national and international conferences and research organizations. Dr. Chao is also serving as an IPv6 Steering Committee member and co-chair of R&D division of the NICI (National Information and Communication Initiative, a ministry level government agency which aims to integrate domestic IT and Telecom projects of Taiwan), Co-chair of the Technical Area for IPv6 Forum Taiwan, the executive editor of the Journal of Internet Technology and the Editor-in-Chief for International Journal of Internet Protocol Technology and International Journal of Ad Hoc and Ubiquitous Computing. Dr. Chao has served as the guest editors for Mobile Networking and Applications (ACM MONET), IEEE JSAC, IEEE Communications Magazine, Computer Communications, IEE Proceedings Communications, the Computer Journal, Telecommunication Systems, Wireless Personal Communications, and Wireless Communications & Mobile Computing. Dr. Chao is an IEEE senior member and a Fellow of IET (IEE). He is also a Chartered Fellow of British Computer Society.

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Invited Talk

Development of Adaptive Service-based Systems in Ubiquitous Computing Environments

Dr. Stephen S. Yau

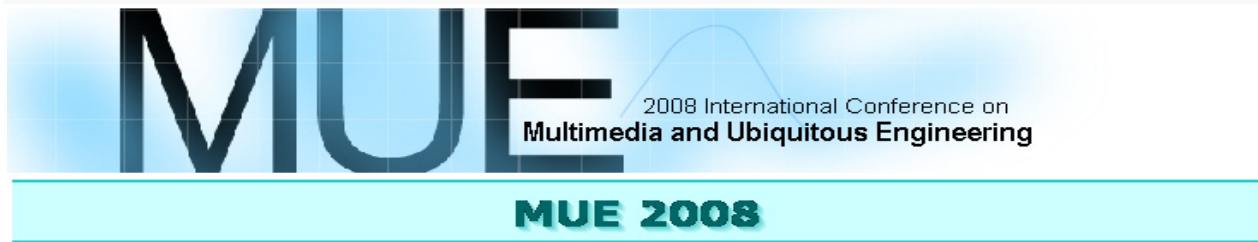
Professor, Computer Science and Engineering
Director, Information Assurance Center
Arizona State University
Tempe, Arizona, USA

Abstract

To achieve the goal of ubiquitous computing (ubicomputing) - "computing anytime, anywhere", it is necessary that ubicomputing software systems can adapt to dynamically changing environments. Such adaptations change the configuration and behavior of ubicomputing software systems to provide not only appropriate functionality but also various satisfactory QoS for users, such as timeliness and security. Recent development of service-oriented architecture (SOA) has shown the great potentials of developing adaptive software systems based on SOA. Software systems based on SOA, called service-based systems, can be rapidly composed from services provided by various organizations regardless the differences in the languages and/or platforms used to implement the services, and can be easily reconfigured in runtime to accommodate new requirements. However, how to develop adaptive service-based systems with satisfactory QoS in dynamic environments like ubicomputing environments remains largely unknown.

The challenges for the rapid development, deployment and operations of adaptive service-based systems providing satisfactory QoS in ubicomputing environments will be presented. Related research, such as autonomic computing and situation awareness, will also be discussed. In particular, our research on Adaptable Situation-aware Secure Service-based (AS3) systems and trustworthy data sharing and management in collaborative ubiquitous computing environments will be presented. Some related issues, such as security and privacy in service discovery and usage of contextual and situation information, and distributed trust management in service-based systems in ubicomputing environments will also be discussed.

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About Dr. Stephen S. Yau

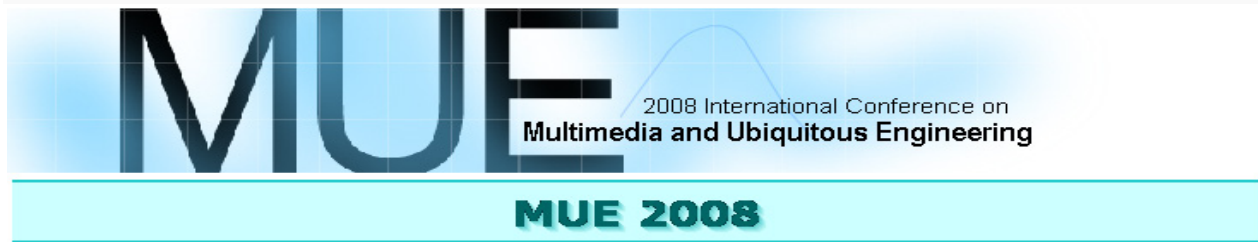
Stephen S. Yau is currently a professor of computer science and engineering at Arizona State University (ASU), Tempe, Arizona, USA. He served as the chair of the Department of Computer Science and Engineering at ASU in 1994-2001. Previously, he was on the faculties of Northwestern University, Evanston, Illinois, and University of Florida, Gainesville.

He served as the president of the Computer Society of the Institute of Electrical and Electronics Engineers (IEEE) and American Federation of Information-Processing Societies (AFIPS). He was on the IEEE Board of Directors, and the Board of Directors of Computing Research Association. He served as the editor-in-chief of IEEE COMPUTER magazine, and organized many national and international major conferences, including the 1974 National Computer Conference sponsored by AFIPS, Association of Computing Machinery, IEEE Computer Society, and Society for Computer Simulation, and the 1989 World Computer Congress sponsored by International Federation for Information Processing (IFIP). He founded and organized the Annual International Computer Software and Applications Conference (COMPSAC) sponsored by the IEEE Computer Society, in 1977.

His current research interests are in software engineering, service-based systems, mobile ad hoc networks, ubiquitous computing, and trustworthy computing. He has received many awards and recognition for his accomplishments, including the Tsutomu Kanai Award and Richard E. Merwin Award of the IEEE Computer Society, the IEEE Centennial Awards and Third Millennium Medal, the Outstanding Contributions Award of the Chinese Computer Federation, and the Louis E. Levy Medal of the Franklin Institute. He is a Life Fellow of the IEEE and a Fellow of the American Association for the Advancement of Science.

He received the M.S. and Ph.D. degrees from the University of Illinois, Urbana, and the B.S. degree from National Taiwan University, Taipei, all in electrical engineering.

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Invited Talk

Ubiquitous Networking: How to make it work?

Dr. Weijia Jia

Professor, Department of Computer Science,
City University of Hong Kong, Hong Kong SAR, China
Website: www.anyserver.org
Email: wei.jia@cityu.edu.hk

Abstract

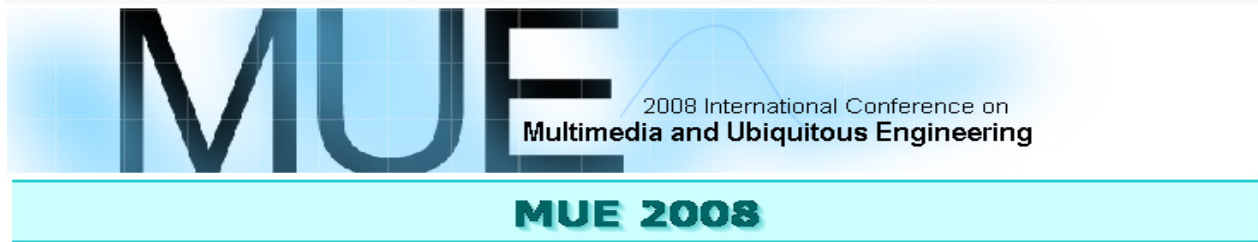
Ubiquitous communications require wireless networking and infrastructure network support. The first step is to look at how the different available technologies will integrate and work with each other. One of the next steps is to seek solutions for connecting "ubiquitous devices" to such "integrated and heterogeneous networks". These two steps together form the evolutionary approach towards ubiquitous networking. This talk introduces our currently implemented ubiquitous transmission system for "ubiquitous devices/terminals/handset", called AnyServer which is an intelligent platform to provide the mobile users with smooth QoS connections/communications, synchronization and roaming over the heterogeneous networks (such as 3G/GSM/WiFi, Sensor network and Internet). Based on SIP, AnyServer is open, scalable, and complaint with IEEE/IETF standards. We will particularly introduce the heterogeneous issue when we do the integrations for the various networks to setup/maintain the real-time video/audio connections among the networks, facing the heterogeneous networks. I will particularly introduce the challenging and interesting issues encountered during our research and implementations for the platform for the "live" integration of the networks.

About Dr. Weijia Jia

Weijia Jia received his BSc, MSc, from Center South University, China and PhD from Polytechnic Faculty of Mons, Belgium, all in computer science. He joined German National Research Center for Information Science (GMD) in St. Augustin in 1993 as a research fellow. Since 1995, he joined the Department of Computer Science, City University of Hong Kong as faculty member. His research interests include wireless communication and networks, distributed systems, multicast and



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anycast QoS routing protocols for Internet. In these fields, he has published more than 200 papers and books/chapters in the international journals and conference proceedings. He has been the Principal-Investigator of more than 20 research projects supported by RGC Research Grants, Hong Kong and Strategic Research Grants, CityU. Currently, he is in charge of a HK\$11 millions ITF project supported by Hong Kong Government for the development of Next Generation Ubiquitous Communication Platforms which was listed as one of the top products at ITU expo, 2006 in Hong Kong. He has served as PC co-chairs and PC members for various IEEE international conferences. He is a member of IEEE.

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



Invited Talk

Multimedia Hashes for Ubiquitous Applications

Dr. Hyoung Joong Kim

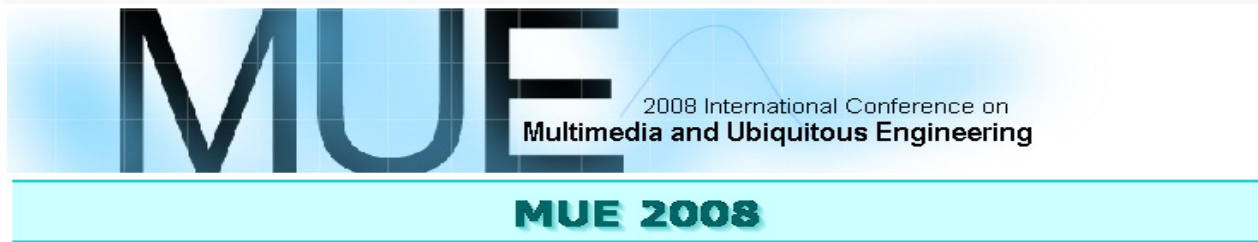
Professor,
Graduate School of Information Management & Security,
Korea University, Korea
Email: khj-@korea.ac.kr

Abstract

Multimedia hash is different from cryptographic hash. Hash turns digital data (including text, image, audio, and video) into a fixed-size binary string. The hash value is a concise representation of the longer message or document from which it was computed. Cryptographic hash functions are used to do message integrity checks and digital signatures in various information security applications, such as authentication and message integrity. Multimedia hash functions can also be used for cryptographic applications for cryptographic purposes. Unfortunately, most of the exist-ing digital signature based schemes remain vulnerable to incidental modifications. Traditional cryptographic hashes are not applicable in the multimedia applications because they are ex-tremely sensitive to the message being hashed.

Multimedia hash function should have the properties that perceptually identical data should have the same hash value with high probability, while perceptually different images should have independent hash values. In addition, the hash function should be secure, so that an attacker cannot predict the hash value of a known data. A multimedia hash function can be used to search and sort a multimedia database, or to select frames in a video sequence for watermark embedding. A few multimedia hash functions have been proposed recently and they are about to be used in practical applications. In this talk, the concept of the multimedia hash, image hash generating al-gorithms, performance of them, and applications of the multimedia hash will be presented. Algo-rithms based on different image descriptors will be evaluated in terms of robustness, computation time, precision and recall for searching applications.

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About Dr. Hyoung Joong Kim

Hyoung Joong Kim received his B.S., M.S., and Ph.D. degrees from Seoul National University, Seoul, Korea, in 1978, 1986, 1989, respectively. He joined the faculty of the Department of Control and Instrumentation Engineering, Kangwon National University, Korea, in 1989. He is currently a Professor of the Graduate School of Information Management and Security, Korea University, Korea since 2006. His research interests include parallel and distributed computing, multimedia computing, and multimedia security. He contributed to MPEG standardization for Digital Item Adaptation, File Format, Symbolic Music Representation, and Multimedia Application Format with more than 10 contributions and same number of patents. In addition, he filed many patents and published more than 30 reviewed papers to international journals, 2 peer-reviewed book chapters and many conference papers. He served as Guest Editor of the IEEE Transactions on Circuits and Systems for Video Technology, EURASIP Journal of Applied Signal Processing, and Technical Program Chair of many international conferences including International Workshop on Digital Watermarking and so on. He is a Vice Editor-in-Chief of the LNCS Transactions on Data Hiding and Multimedia Security, Associate Editors of well-known international journals, and Editors of many Lecture Notes in Computer Sciences. He is a member of ACM, IEEE and a couple of Korean academic societies.

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



April 24th, 2008

Registration Open 08:20 ~

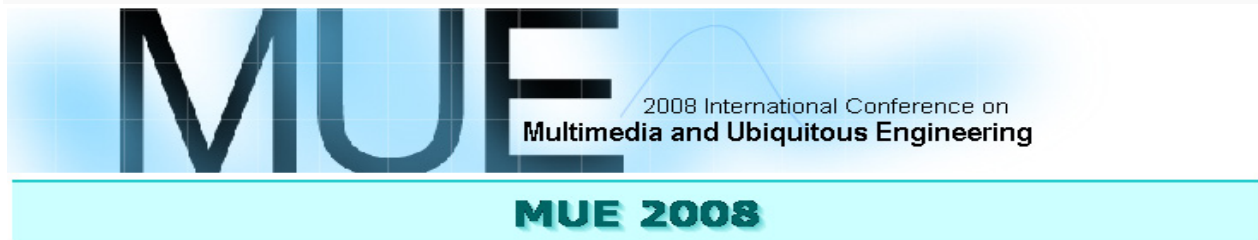
Technical Session			
	Session 1	Session 2	Session 3
09:30~11:00	MUE 2008 General Youngsoo Kim Jinju Hall	MUE 2008 General Young-Sik Jeong Sora Hall	MUE 2008 General Chulgyu Song Sanho Hall
09:30~09:45	Reconfigurable Depth Buffer Compression Design for 3D Graphics System Tzung-Rung Jung, Lan-Da Van, Wai-Chi Fang, Teng-Yao Sheu	A Time Slot Count in Window Method Suitable for Long-term Regularity-based User Classification in the Mobile Internet Toshihiko Yamakami	GPU-Based Simulation of Large-Scope Ocean Wave Sujun Li
09:45~10:00	A Video Sharing Platform with Data Grid Technology for Mobile Devices Chao-Tung Yang, Chun-Jen Chen, Chien-Jung Huang, Hung-Yen Chen	FBBM: A new Backup Method with Data De-duplication Capability Tianming Yang, Dan Feng, Jingning Liu, Yaping Wan	I-SEAD: A Secure Routing Protocol for Mobile Ad Hoc Networks Chu-Hsing Lin, Wei-Shen Lai
10:00~10:15	A Performance-Effective and High-Scalable Grid File System Chin-Chen Chu, Ching-Hsien Hsu	Abnormal Gait Detection Using Discrete Fourier Transform Ahmed Mostayed, Mohammad Mynuddin Gani Mazumder, Sikyung Kim, Se Jin Park	An extension of software player for playing finalizing-failure DVD VR discs Chun-Yi Tsai, Tzao-Lin Lee
10:15~10:30	Intelligent security for inter-space surveillance applications Geon-Woo Kim, Jong-Wook Han, Sang-Wook Kim	A Trust Management Model for P2P File Sharing System Huafeng Wu, Haiguang Chen, Chuanshan Gao	Aspect Ratio Conversion Based on Saliency Model Zhongliang Deng, Yandong Guo, Xiaodong Gu, Zhibo

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



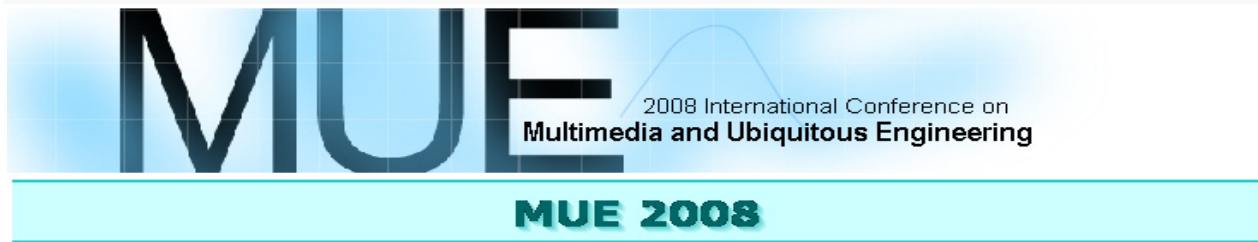
			Chen, Quqing Chen, Charles Wang
10:30~10:45	FMCS: A File Replication and Consistency Strategy in Data Grids	The Self-adaptive Heartbeat Design of high Availability RAID Dual-controller	Development of Multi-View Video Coding Using Hierarchical B Pictures
	Chao-Tung Yang, Chun-Pin Fu, Chien-Jung Huang, Ching-Hsien Hsu	Yaping Wan, Dan Feng, Tianming Yang, Ze Deng	Feng Pan, Lini Ma, Xiaoyu Du
10:45~11:00	Optimized Implementation of Ray Tracing on Cell Broadband Engine	A Regularity-oriented Service Model with Sub-day-scale User Classifications in the Mobile Internet	Ambulatory urodynamics monitoring system using personal digital assistance
	Bo Li, Hai Jin, Zhiyuan Shao, Yong Li, Xin Liu	Toshihiko Yamakami	Keosik Kim, Yangsu An, Jeonghwan Seo, Chulgyu Song
11:00~12:00	Invited Speaking - Jinju Hall		
	Dr. Han-Chieh Chao		
	Cross-Layer Design in 3G Wireless Networks and Beyond		
12:00~13:00	Lunch Time		
13:00~14:00	Invited Speaking - Jinju Hall		
	Dr. Stephen S. Yau		
	Development of Adaptive Service-based Systems in Ubiquitous Computing Environments		
14:00~15:00	Invited Speaking - Jinju Hall		
	Dr. Hyoung Joong Kim		
	Multimedia Hashes for Ubiquitous Applications		
15:00~15:30	Coffee Break		

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



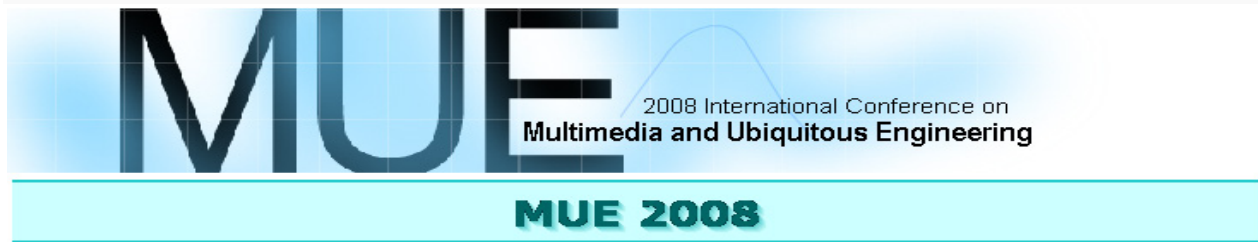
Technical Session			
	Session 6	Session 7	Session 8
15:30~ 17:45	ISA 2008 General Han-Chieh Chao Jinju Hall	MUE 2008 General Ching-Hsien Hsu Sora Hall	MUE 2008 General Stephen S. Yau Sanho Hall
15:30~ 15:45	A new forensic image format for high capacity disk storage Sang Su Lee, Tae-Sik Park, Sang-Uk Shin, Sung-Kyong Un, Do-Won Hong	A Rekey-Boosted Security Protocol in Hierarchical Wireless Sensor Network Yiying zhang, wencheng Yang, Keebum Kim, Minyu Cui, Myongsoon Park	ACE: Active Emergence Call Service System for u-Lifecare Won-Hee Han, Eun-Ha Song, Laurence T. Yang, Jong-Hyuk Park, Young-Sik Jeong
15:45~ 16:00	Investigating Wireless Sensor Network Lifetime using a Realistic Radio Communication Model Michael Mallinson, Sajid Hussain, Jong Hyuk Park	Image Retrieval using Maximum Frequency of Local Histogram based Color Correlogram Waqas Rasheed, Muhammad Riaz, Jongan Park	A Robust Watermark Scheme for Copyright Protection Chu-Hsing Lin, Jung-Chun Liu, Chih-Hsiung Shih, Yan-Wei Li
16:00~ 16:15	UMOST : Ubiquitous Multimedia Framework for Context-aware Session Mobility YongJu Lee	An Energy-Aware Distributed Algorithm for Sensor Nodes Clustering Susmit Bagchi	Supporting Landmark Image Retrieval with Skyline Extraction Techniques Yu-Ren Liao, Yu-Cheng Chen, Kuan-Chung Chen, Wei-Guang Teng
16:15~ 16:30	IMAGE-BASED MODELING OF VIRTUAL PAGODA OF CHINA Wu Guo, Yi Li, Wenhui Li, Meiyang Sun	Efficient Information Retrieval by Dispatching Mobile Agents in Parallel Wenyu Qu, Keqiu Li	Automatic Colonic Polyp Detection by the Mapping using Regional Unit Sphere Mira Park, Jesse Jin, Min Xu, ByoungHo Kang
16:30~ 16:45	Cognitive Modeling in Medical Pattern Semantic Understanding Lidia Ogiela, Ryszard	An Improvement of Password-only Authenticated Key Establishment Protocol without Public Key Cryptography Eun-Jun Yoon, Kee-Young	Agent-based Trust Management Model for Wireless Sensor Networks Haiguang Chen, Huafeng

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



	Tadeusiewicz, Marek Ogiela	Yoo	Wu, Jinchu Hu, Chuanshan Gao
16:45~ 17:00	An IMS based Inter-Working Solution for Multimedia Service in a Converged Network	Which Instant messaging system should I choose: a conceptual model	G3M: A Generalized Multimedia Data Model Based on MPEG-7
	Zhongwen Zhu	Zhaoli Meng, Meiyun Zuo, Yanhui Chen	Qiong Zuo, Zhongsheng Cao
17:00~ 17:15	OPTIMAL REQUANTIZER SELECTION FOR MPEG-4 VIDEO	A New CORDIC Algorithm and Software Implementation Based on Synchronized Data Triggering Architecture	Lifelog Image Analysis based on Activity Situation Models Using Contexts from Wearable Multi Sensors
	Anand B. Deshpande, Hemant V. Kamat	Xin-biao Gan, Kui Dai, Li-bo Huang, Li Shen, Zhi-ying Wang	Katsuhiko Takata, Jianhua Ma, Bernady O. Apduhan, Runhe Huang, Norio Shiratori
17:15~ 17:30	Video customization system using Mpeg standards	SCV: Structure and Constant Value based Binary Diffing	OntoCBR: Ontology-based CBR in Context-aware Applications
	Svetlana Kim, Yong-Ik Yoon	Heewan Park, Seokwoo Choi, Sunae Seo, Taisook Han	Yun Bai, Juan Yang, Yuhui Qiu
17:30~ 17:45	Genetic Algorithm for Shortest Driving Time in Intelligent Transportation Systems	A Novel Technique for Real-Time Internet Radio Recorder on Non-DSP Embedded System	Methodology for evaluation of information security measures of a system
	Chu-Hsing Lin, Jung-Chun Liu, Jui-Ling Yu, Chia-Jen Li	Lain-Jing Hwang, Chien-Chou Shih	Takaaki Shigematsu, Bin-Hui Chou, Yoshiaki Hori, Kouichi Sakurai

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



April 25th, 2008

Registration Open 08:30 ~

Technical Session			
	Session 11	Session 12	Session 13
09:00~11:00	MUE 2008 General	MUE 2008 General	IMIS
	Changhoon Lee	Hyoung Joong Kim	Bonam Kim
	Jinju Hall	Sora Hall	Sanho Hall
09:00~09:15	An Interactive Fire Animation on a Mobile Environment	Speaker Independent Phoneme Recognition Based on Fisher Weight Map	Distributive Key Management for Mobile Ad Hoc Networks
	DoHoon Lee, DongGyu Park, SangHyuk Woo, MiRiNa Jo	Takashi Muroi, Tetsuya Takiguchi, Yasuo Arika	Mohammad Al-Shurman, Seong-Moo Yoo
09:15~09:30	Using Adaptive Bandwidth Allocation Approach to Defend DDoS Attacks	Integrated Platform for Collaborative Learning in the Mobile Environment	A Cost Effective Rate Control for Streaming Video Dedicated to Wireless Handheld Devices
	Chu-Hsing Lin, Jung-Chun Liu, Hsun-Chi Hwang	Yu-Tsung Tai, Meng-Chien Yang	Youn-Sik Hong, Jun-Sik Hong
09:30~09:45	Investigation of Secure Framework for Multipath MANET	ATBaM: An Arnold Transform Based Method on Watermarking Relational Data	Energy-Efficient Buffer Architecture for Flash Memory
	Binod Vaidya, Seung-Jo Han	Chaokun Wang, Jianmin Wang, Ming Zhou, Deyi Li	Wen-Tzeng Huang, Chin-Hsing Chen, Chun-Ta Chen, C-C Cheng
09:45~10:00	Validating Secure Connections between Wireless Devices in Pervasive Computing Using Data Matrix	High-Speed Implementations of Block Cipher ARIA Using Graphics Processing Units	The Practical System Architecture in Wireless Sensor Networks
	Seunghyun Im	Yongjin Yeom, YongKuk Cho, Moti Yung	Hyun-Jin Kim, Junmo Yang
10:00~10:15	Analyzing Maximum Length of Instruction Sequence in Network Packets for Polymorphic Worm Detection	Audio-Based Video Editing with Two-Channel Microphone	An Improved Flexible Access Control Scheme for JPEG2000 Codestreams

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



	Kohei Tataru, Yoshiaki Hori, Kouichi Sakurai	Tetsuya Takiguchi, Jun Adachi, Yasuo Arika	Yang Ou, Chae Duk Jung, Chul Sur, Kyung Hyune Rhee
10:15~ 10:30	Broadcasting with the least energy is an NP-complete problem	Context-Aware Environment-Roles-Based Access Control Model for Web Services	Ubiquitous Web Access: Collaborative Optimization and Dynamic Content Negotiation
	Wuu Yang, Huei-Ru Tseng, Rong-Hong Jan, Bor-Yeh Shen	Chun-Dong WANG, Li-chun FENG	Xavier Sanchez-Loro, Victoria Beltran, Jordi Casademont, Marisa Catalan
10:30~ 10:45	A Novel Personal Identity Verification Approach Using a Discrete Wavelet Transform of the ECG Signal	An Intelligent Clustering Algorithm for 3D Objects Layouts in Storage Systems	A Novel Network Mobility Scheme Using SIP and SCTP for Multimedia Applications
	Chuang-Chien Chiu, Chou-Min Chuang, Chih-Yu Hsu	Shao-Shin Hung, Hui-Ling Lin	Fang-Yie Leu, Zhen-Jia Ko
10:45~ 11:00	A Reflective Heterogeneous Service Coordination Middleware Based On Mobile Agents in Wireless Environments	A Channel Management Scheme for Reducing Interference in Ubiquitous Wireless LANs Environment	A User-Perceived Freshness Clustering Method to Identify Three Subgroups in Mobile Internet Users
	Hu Haiyang, Hu Hua	Ki Baek Yoo, Chong-kwon Kim	Toshihiko Yamakami
11:00~ 12:00	Invited Speaking - TaeJongDae Hall		
	Dr. Byeongho Kang		
	Incremental learning method in traffic anomaly detection systems		
12:00~ 13:00	Lunch Time		
13:00~ 15:30	Technical Session		
	Session 17	Session 18	Session 19
	MUE 2008 General	MUE 2008 General	IMIS + General
	Weijia Jia	Deok-gyu Lee	Junmo Yang
	Jinju Hall	Sora Hall	Sanho Hall

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



13:00~ 13:15	A Very Low Bit Rate Video Coding for Ubiquitous Services	Toward a Message-Oriented Application Model and its Middleware Support in Ubiquitous Environments	Natural Language Watermarking for Korean Using Adverbial Displacement
	Ben-Shung Chow	Chun-Feng Liao, Ya-Wen Jong, Li-Chen Fu	Mi-Young Kim
13:15~ 13:30	Hybrid Negotiation Mechanism for Resolution Conflicts between Replicas in Data Grid	Human-Robot Interface Using System Request Utterance Detection Based on Acoustic Features	Energy Effective Geographical Routing Considering Wireless Link Condition in WSN
	Ghalem Belalem, Belabbes Yagoubi	Tetsuya Takiguchi, Tomoyuki Yamagata, Atsushi Sako, Nobuyuki Miyake, Jerome Revaud, Yasuo Ariki	Inbo Sim, Jaiyong Lee
13:30~ 13:45	A Dynamic Hybrid Congestion Control Algorithm for Structured P2P Networks	A Location-Aware Resource Management Scheme for Ubiquitous Wireless Networks	A Context-Aware Push-to-Talk Service
	Zhi Chen, Guowei Huang, Jingdong Xu	Chenn-Jung Huang, Hong-Xin Chen, I-Fan Chen, Kai-Wen Hu	Jenq-Muh Hsu, Wei-Bin Lain, Jui-Chih Liang
13:45~ 14:00	Personalized information Retrieval using the User History	A novel evaluation method basing on support vector machine	Development of Telemedicine and Telecare over Wireless Sensor Network
	Taehwan Kim, Hochul Jeon, Joongmin Choi	Guangming Xian	Shuo-Jen Hsu, Hsin-Hsien Wu, Shih-Wei Chen, Tzang-Chi Liu, Wen-Tzeng Huang, Yuan-Jen Chang, Chin-Hsing Chen, You-Yin Chen
14:00~ 14:15	An Imperceptible Watermarking Scheme Using Variation and Modular Operations	Gaining Flexibility and Performance of Computing Using Reconfigurable Architecture and Tailored Instruction Set	A Proposal on the Error Bound of Collaborative Filtering Recommender System
	Shu-Fen Tu, Ching-Sheng Hsu	Tian Hangpei, Gao Deyuan, Zhu Yian	Uk-Pyo Han, Gil-Mo Yang, Jae-Soo Yoo, Hee-Choon Lee, Young-Jun Chung

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



14:15~ 14:30	A Conceptual Model of Adjectival Modification in Chinese and Its Automatic Construction from a Machine Readable Dictionary	Dynamically Reconfigurable Instruction Set for Software Radio Encoding and Coding	A New Live Streaming Media Architecture for Peer-to-Peer Network
	Xuening Li, Ruzhan Lu, Yi Hu	Tian Hangpei, Gao Deyuan, Zhu Yian	Jiujun Cheng, Chungang Yan, Jian Ma
14:30~ 14:45	Ontology-based User Intention Recognition for Proactive Planning of Intelligent Robot Behavior	A novel hybrid model for information processing basing on rough sets and fuzzy SVM	A New Parameter Selection Method of Neural Network
	Hochul Jeon, Taehwan Lim, Joongmin Choi	Guangming Xian	Guifang Wu, Seyoung JANG, Hoonsung Kwak, Jiexin PU
14:45~ 15:00	A Novel Topic Extraction Method based on Bursts in Video Streams	A Novel Hierarchic SLB Scheduling in a Distributed Multimedia Services System	Service Integration toward Ubiquitous BPM
	Kimiaki Shirahama, Kuniaki Uehara	Minglong zhang, Boqin Feng	Jae-Yoon Jung, Jaehyun Kong, Jinwoo Park
15:00~ 15:15	Geometrically Reciprocal Authentication Scheme Using Shift Tangent Line in Ad Hoc Network Systems	An Eyes-Free In-Car User Interface Interaction Style based on Visual and Textual Mnemonics, Chording and Speech	The Study of Metal Resource Management Module and Process by Analyzing Information
	Shiuh-Jeng WANG	Frode Eika Sandnes, Yo-Ping Huang, Yeh-Min Huang	Sungmo Jung, Seoksoo Kim
15:15~ 15:30	TCP-based dynamic media stream adaptation in ubiquitous environment	A Verification-Based Localization Method for Unstable Radio Sensor Networks in Smart Home Environments	A study on the compound communication network over the high voltage power line for Distribution Automation System
	Gergely Homanyi, Gabor Paller	Yong-Ming Huang, Ding-Chao Wang, Chao-Chun Chen	Duckhwa Hyun, Younghun Lee
15:30~ 16:00	Coffee Break		
16:00~	Invited Speaking - TaeJongDae Hall		

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



17:00	Dr. Weijia Jia Ubiquitous Networking: How to make it work?
17:10~ 17:30	Welcome Ceremony - TaeJongDae Hall 1. VIP 2. Conferenc Chiar 3. Program Chair 4. President of SERSC 5. Best Papers Award
17:30~ 21:00	Conference Dinner - TaeJongDae Hall

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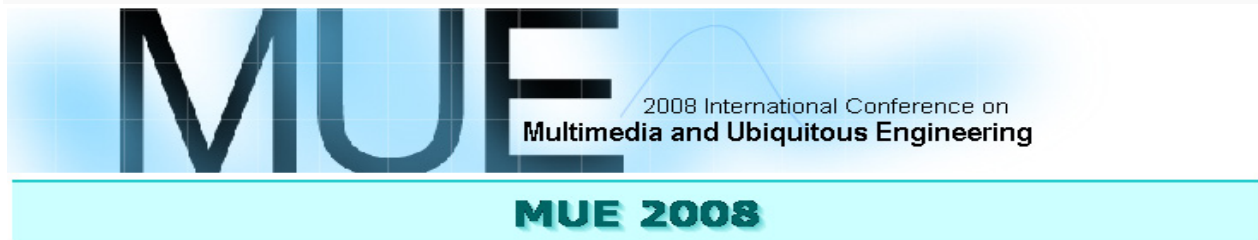


April 26th, 2008

Registration Open 08:30 ~

Invited Speaking - TaeJongDae Hall			
09:00~ 10:00	Dr. Belur V. Dasarathy		
	Multi-Source Information Fusion - An Overview in the Context of Information Security and Assurance		
Technical Session			
10:00~ 12:00	Session 23	Session 24	Session 25
	UMS + WNGS	MUE 2008 General	MUE 2008 General
	Sajid Hussain	Ching-Hsien Hsu	Hangbae Chang
	Jinju Hall	Sora Hall	Sanho Hall
10:00~ 10:15	An Expectation Trust Benefit Driven Algorithm for Resource Scheduling in Grid Computing Hao YongSheng, Xu YueBin, Liu GuanFeng	Employee Lack of Commitment in Information Security Awareness Programs Jemal Abawajy, Kasey Thatcher, Tai-hoon Kim	Security Policy Pre-evaluation towards Risk Analysis Yi Han, Yoshiaki Hori, Kouichi Sakurai
10:15~ 10:30	Supporting Appropriate Communication Media Selection In Ubiquitous Environment Seint Seint Aye, Kyoji Kawagoe	A Transcoding Architecture for Adapting MPEG-21 Digital Items in Mobile Networks Tz-Heng Hsu, Yueh-Heng Li, Meng-Shu Chiang	Design and Implementation of ATA-based Virtual Storage System for Mobile Device Yu-Shu They, Chee-Min Yeoh, Hoon-Jae Lee, Hyotaek Lim
10:30~ 10:45	Flexible Key Assignment for a Time-token Constraint in a Hierarchy Shiuh-Jeng Wang	Damaged Compressed File Recovery for Digital Forensics Purposes Bora Park, Antonio Savoldi, Paolo Gubian, Jungheum Park, Seok Hee Lee, Sangjin Lee	A Secure Virtualized Logging Scheme for Digital Forensics in Comparison with Kernel Module Approach Bin-Hui Chou, Kohei Tatara, Yoshiaki Hori, Kouichi Sakurai
10:45~	A Study on New Low-Cost	SVM-based Video Scene	Automated Spyware Detection

The 2nd International Conference on Multimedia and Ubiquitous Engineering (MUE2008)



11:00	RFID System with Mutual Authentication Scheme in Ubiquitous	Classification and Segmentation	Using End User License Agreements
	Soo-Young Kang, Im-Yeong Lee	Yingying Zhu, Zhong Ming	Martin Boldt, Andreas Jacobsson, Niklas Lavesson, Paul Davidsson
11:00~11:15	A general method for shot boundary detection	Developing Proactive Information Delivery System through Bluetooth in Ubiquitous Networks	Exploring security countermeasures along the attack sequence
	Ling Xue, Yuanxin Ouyang, Huan Li, Zhang Xiong	Eric Ballance, Hwajung Lee	Taketoshi Sakuraba, Seiichi Domyo, Bin-Hui Chou, Kouichi Sakurai
11:15~11:30	CPOP: Cryptography Process Offloading Proxy for Resource Constrained Devices	Efficient Data Dissemination in Mobile P2P Ad-Hoc Networks for Ubiquitous Computing	A Web Metering Scheme for Fair Advertisement Transactions
	Yu-Shu They, Seong-Yee Phang, Sanggon Lee, Hoonjae Lee, Hyotaek Lim	Do Hoon Kim, Myoung Rak Lee, Longzhe Han, Hoh In	Ren-Chiun Wang, Wen-Sheng Juang, Chin-Laung Lei
12:00~	Conference Tour Pusan City Tour with Lunch (Half Day Tour) - Please visit tour desk : About \$60 USD -		