

# International Conference on INTERACTIVE DIGITAL MEDIA

03 - 04 DECEMBER  
2012

BAYVIEW HOTEL, LANGKAWI  
MALAYSIA

The Department of Computer Graphics and Multimedia (GMM), Faculty of Computer Science and Information Systems, Universiti Teknologi Malaysia in collaboration with School of Professional & Continuing Education (SPACE) are pleased to announce the **International Conference on Interactive Digital Media (ICIDM 2012)** to be held on **3 - 4 December 2012** at the Bayview Hotel, Langkawi, Malaysia. ICIDM is the first international conference to be fully organized by GMM. It was started by International workshop on interactive digital media 2008 held at Johor Bahru.

**Selected accepted full papers will be published in a special issue of Journal such as International Journal TELKOMNIKA indexed by Elsevier, Journal Teknologi UTM indexed by SCOPUS and Journal of Digital Media.**

**All Accepted paper will be included in ICIDM 2012 proceeding, printed out and distributed during the conference day.**

ICIDM 2012 brings an opportunity to invite new innovative invention on Computer Graphics, Image Processing, and Human Computer Interaction and Web technology. We seek original research full papers and short papers covering topics including, but not limited to:

## Computer Graphics, Animation and Social Agent

- Motion Control
- Motion Capture and Retargeting
- Path Planning
- Physics-based Animation
- Vision-based Techniques
- Behavioural Animation
- Social Agents and Avatars
- Emotion and Personality
- Virtual Humans
- Autonomous Actors
- AI-based Animation
- Social and Conversational Agents
- Inter-Agent Communication
- Social Behaviour
- Crowd Simulation
- Understanding Human Activity
- Memory and Long-term Interaction, etc.
- Fundamental algorithms for computer graphics and computer vision
- Model representation and simplification
- Parametric curves and surfaces
- Illumination techniques
- Colours and colour systems
- 3D scene reconstruction
- Augmented/Mixed Reality
- Animation Compression and Transmission
- Semantics and Ontology's for Virtual Humans/ Environments
- Animation Analysis and Structuring
- Anthropometric Virtual Human Models
- Acquisition and Reconstruction of Animation Data
- Level of Details Artificial Life
- Deformation
- Facial Animation
- Image-based Animation
- Multi-Resolution and Multi-Scale Models
- Knowledge-based Animation, etc.
- Semantic Representation of Motion and Animation
- Cultural Heritage
- Interaction for Virtual Humans
- 3D Physiological Humans
- 3D Telepresence
- Augmented Reality and Virtual Reality, etc.
- Scientific and technical visualization
- Information visualization
- Mobile graphics and vision system
- Industrial application of computer graphics and vision
- Medical Visualization

## Image and Speech Processing

- Image Acquisition and Display: imaging sensors and acquisition systems; sampling, scanning and quantization; colour reproduction; image rendering; display and printing systems; evaluation of image quality.
- Image and Video Analysis: low-level feature extraction – colour, texture and shape; high-level semantics; pattern recognition and classification; motion analysis and object tracking; object, event and scene recognition.
- Emerging Technologies in DSP: chaos theory and fractals; higher-order statistical techniques; multi-resolution and wavelet analysis; nonlinear signal processing.
- Applied Signal Processing: signal processing for life sciences data; forensic signal analysis; radar and array processing; seismic signal processing; speech and music processing, smart grid applications.
- Image and Video Processing: image filtering; enhancement and restoration; image and video segmentation; image registration; stereoscopic and 3-D processing; video and image sequence processing; morphological processing.
- Storage and Retrieval: Image, audio and video databases; multidimensional indexing; content-based retrieval; semantics retrieval; automatic image and video annotation.
- Signal Processing in Communications: baseband communications; coding theory; digital communications; information theory; software radio; wireless communications.

## Human Computer Interaction

- Adaptive and personalized interfaces
- Analysis and design methods
- Architectures for interaction
- Computer-augmented environments
- Computer-based learning
- Ecological interfaces
- Emotions in HCI
- Evaluation methods and techniques
- Gesture and eye-gaze based interaction
- Graphical user interface
- Tangible user interfaces
- User support systems
- HCI standards
- Home and entertainment systems
- Intelligent and agent systems interaction design
- Interaction through wireless communication networks
- Interfaces for distributed environments
- Multimedia design
- Non-verbal interfaces
- Speech and natural language interfaces
- Support for creativity
- User interface development environments

## COMMITTEE

### Conference Chairs:

Dr. Mohd Shafry Mohd Rahim  
Universiti Teknologi Malaysia  
Dr. Ahmad Hoirul Basori  
Universiti Teknologi Malaysia

### Program Chairs:

Dr. Mohd Shafry Mohd Rahim  
Universiti Teknologi Malaysia  
Dr. Ahmad Hoirul Basori  
Universiti Teknologi Malaysia  
Dr. Md Sah Hj Salam  
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### International Program Committee:

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Universiti Teknologi Malaysia, Malaysia  
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Universiti Teknologi Malaysia, Malaysia  
Prof. Daut Daman  
King Abdulaziz University, Saudi Arabia  
Prof. Dr. Rivanarto Sarno  
Institut Teknologi Sepuluh Nopember, Indonesia

## IMPORTANT DATES

Deadline for Submission  
**1st June 2012**

Notification of Acceptance  
**1st July 2012**

Camera Ready  
**1st September 2012**

Registration  
**1st September 2012**

Prof. Dr. Zhigeng Pan  
Zhejiang University, China  
Prof. Dr. Masaki Oshita  
Kyushu Institute of Technology, Japan  
Prof. Dr. Edmond Prakash  
University of Bedfordshire, United Kingdom  
Dr. Mohd Shahrizal Sunar  
Universiti Teknologi Malaysia, Malaysia  
Dr. Norazman Ismail  
Universiti Teknologi Malaysia, Malaysia

## KEYNOTE SPEAKER



**PROF. DR. ZHIGENG PAN**  
Professor, State Key Lab of CAD&CG,  
Zhejiang University, Hangzhou, China



**DR. MOHD SHAHRIZAL SUNAR**  
Head of Computer Graphics and  
Multimedia Department, Faculty of  
Computer Science and Information  
Systems, Universiti Teknologi Malaysia

### ORGANISED BY :

**Graphics & Multimedia Department,**  
Faculty of Computer Science and Information System (FSKSM)  
**School of Professional and Continuing Education (UTMSPACE)**  
UNIVERSITI TEKNOLOGI MALAYSIA

# ICIDM 2012

## REGISTRATION FEES

	Local (RM)	International (RM)
Early bird	790.00	1190.00
Normal	890.00	1360.00

(Registration fees for the conference include conference materials, lunch, refreshment and certificate of attendance)

### DISCLAIMER

The Organiser reserves the right to make any amendments and/or to cancel the event if warranted by circumstances beyond its control. Terms and conditions apply.

### CANCELLATION POLICY

Cancellation of participation should be made 30 days prior to the conference to be eligible for a refund (less 15%). Please note that the speakers and topics are confirmed at the time of printing. However, circumstances beyond the control of the organisers may necessitate substitutions or cancellations of speakers and/or topics. As such Universiti Teknologi Malaysia reserves the rights to substitute or cancel the advertised speakers and /or topics.

### PAPER SUBMISSION FORMAT

All submissions should be formatted as single-spaced, double column A4 paper size, according to the following templates available for download: LaTeX template [LaTeX template], or MS Word template [MS Word template]. Full paper submissions are limited to 101 pages in length, including references, tables and figures. If the paper is accepted as short paper it should have maximum 4 pages.

Papers should be submitted in the PDF file format through EasyChair or icidm2012@gmail.com. Supplementary materials (e.g., videos) should be compressed in the ZIP file format and email to icidm2012@gmail.com, with the authors' information and paper id.

## REGISTRATION FORM

### To confirm your registration, please complete this form

Name : \_\_\_\_\_  
NRIC / Passport No. : \_\_\_\_\_  
Title : \_\_\_\_\_  
Organisation : \_\_\_\_\_  
Address : \_\_\_\_\_  
Tel : \_\_\_\_\_  
Fax : \_\_\_\_\_  
E-mail : \_\_\_\_\_

### Please tick (/) in the appropriate box/es below

I will attend as participant       I will present paper

Title of Paper : \_\_\_\_\_  
Co-authors : \_\_\_\_\_  
Signature : \_\_\_\_\_  
Date : \_\_\_\_\_

### Food Preference

Vegetarian       Non-vegetarian

### MODE OF PAYMENT

#### A. Cheque or Bank Draft

Cheque No. /  
Bank Draft No. : \_\_\_\_\_  
Bank / Branch : \_\_\_\_\_

All crossed cheque/ bank draft should be made payable to

Account Name : **UTMSpace**  
Account Number : **0116-0000426-10-7**  
Bank Name : **CIMB Bank Berhad**  
Branch : **UTM Skudai, Johor**

#### B. Local Order (LO/PO)

Reference Number : \_\_\_\_\_

### Organisation Details (for issuance of invoice)

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Mobile No. : \_\_\_\_\_  
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*This registration is invalid without a signature. Payment must be made no later than 7 working days before the conference commences. An undertaking letter may be accepted in cases where payment is delayed. However, all payment must be made before the conference commences. Participants who registered but did not attend will be invoiced accordingly.*

Authorised Signature : \_\_\_\_\_  
Date : \_\_\_\_\_  
Name : \_\_\_\_\_  
Designation : \_\_\_\_\_

Organisation's Stamp

### FOR FURTHER INFORMATION, PLEASE CONTACT:

ICIDM 2012 Secretariat  
School of Professional and Continuing Education (UTMSpace)  
Universiti Teknologi Malaysia  
No. 34-50, Jalan Kebudayaan 1, Taman Universiti  
81300 Skudai, Johor

Tel : +607-5218170 / 59  
Fax : +607-5211355

Website : <http://seminar.utmspace.edu.my/icidm2012>  
E-mail : [icidm2012@gmail.com](mailto:icidm2012@gmail.com)