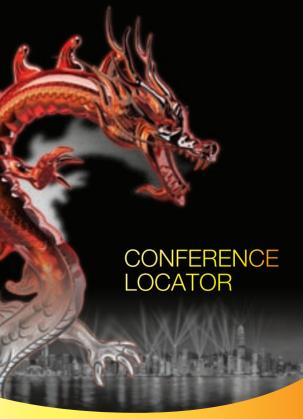


SIGGRAPHASIA2011 HONG KONG

The 4th ACM SIGGRAPH Conference and Exhibition on Computer Graphics and Interactive Techniques in Asia

Conference: 12-15 December | Exhibition: 13-15 December



Future Conference Dates:

SIGGRAPH 2012

5 - 9 August Los Angeles Convention Center Los Angeles www.siggraph.org/s2012

SIGGRAPH Asia 2012

28 November - 1 December Suntec Singapore Singapore www.siggraph.org/asia2012

To reserve an exhibit space, contact:

SIGGRAPH Asia 2012

Exhibition Sales Management +65 6500 6725 exhibits_asia@siggraph.org

For contributor & attendee information, contact:

SIGGRAPH Asia 2012

Conference Management +65 6500 6700 cmasia@siggraph.org

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Conference and Exhibition Hours & Policies

Registration: Ground Floor, Harbour Road Entrance

Sunday, 11 December 2011	14:00-18:00
Monday, 12 December 2011	08:00-18:30
Tuesday, 13 December 2011	08:00-18:30
Wednesday, 14 December 2011	08:00-18:30
Thursday, 15 December 2011	08:00-18:00

Merchandise Counter: Mezzanine

Monday, 12 December 2011	08:00-18:30
Tuesday, 13 December 2011	08:00-18:30
Wednesday, 14 December 2011	08:00-18:30
Thursday, 15 December 2011	08:00-18:00

Exhibition, Art Gallery, and Emerging Technologies, Level 3, Hall 3G

Tuesday, 13 December 2011	09:30-18:00
Wednesday, 14 December 2011	09:30-18:00
Thursday, 15 December 2011	09:30-17:00

Conference: Level 1, Convention Halls and Theater, Level 2, Rooms S221 - S230

Monday, 12 December 2011	09:00-18:00
Tuesday, 13 December 2011	09:00-18:00
Wednesday, 14 December 2011	09:00-18:00
Thursday, 15 December 2011	09:00-18:00

Bookstore: Convention Hall Foyer

Monday, 12 December 2011	09:30-18:30
Tuesday, 13 December 2011	09:30-18:30
Wednesday, 14 December 2011	09:30-18:30
Thursday, 15 December 2011	09:30-18:30





www.cgsociety.org

Speaker Preparation Room: Level 2, Room S223

Sunday, 11 December 2011	14:00-18:00
Monday, 12 December 2011	08:00-18:00
Tuesday, 13 December 2011	08:00-18:00
Wednesday, 14 December 2011	08:00-18:00
Thursday, 15 December 2011	08:00-16:00

Conference Management Office: Level 1, Room V104

Sunday, 11 December 2011	14:00-18:00
Monday, 12 December 2011	08:00-18:00
Tuesday, 13 December 2011	08:00-18:00
Wednesday, 14 December 2011	08:00-18:00
Thursday, 15 December 2011	08:00-18:00

Exhibition Management Office: Level 3, Room G312

Monday, 12 December 2011	08:00-18:00
Tuesday, 13 December 2011	08:00-18:00
Wednesday, 14 December 2011	08:00-18:00
Thursday, 15 December 2011	08:00-18:00

Conference Policies

- Children under 16 are not permitted in the Exhibition. Age verification is required.
- Registered attendees under the age of 16 must be accompanied by an adult at all times.
- SIGGRAPH Asia 2011 reserves the right to deny registration or entrance to any attendee or prospective attendee, and to cancel an existing registration, if it determines that a registration or an attendee is not in the best interest of SIGGRAPH Asia 2011 or ACM SIGGRAPH.
- Lost badges cannot be replaced. If you lose your badge you
 must register again at the published rates to obtain a new
 badge.
- SIGGRAPH Asia 2011 conference documentation and prepurchased merchandise will not be shipped, nor will refunds be given for any material not picked up at the Merchandise Pickup Center.

Camera/Recording Policies

No cameras or recording devices are permitted at SIGGRAPH Asia 2011. Abuse of this policy will result in revocation of the individual's registration credentials.

SIGGRAPH Asia 2011 employs a professional photographer and reserves the right to use all images that this photographer takes during the conference for publication and promotion of future ACM SIGGRAPH events.

General Information

ACM Transactions on Graphics

The printed ACM Transaction on Graphics (Conference Proceedings Special Issue) contains the Technical Papers. ACM Transaction on Graphics (Conference Proceedings Special Issue) was available for purchase online through the SIGGRAPH Asia 2011 registration system on or before 31 October. There will be no sales of onsite copies. ACM Transaction on Graphics can be purchased through ACM's e-store at http://store.acm.org post conference.

Accesibility

The Hong Kong Convention and Exhibition Centre offers a full range of amenities to assist those with disabilities. Spacious guest lifts readily accommodate wheelchairs, and all entrances are ramped. Braille directory and teleloop system are installed in the Information Counters which are located at the Harbour Road and Expo Drive entrances. There are also tactile guide paths, specially designed toilets, and telephone booths. The Centre's car parks provide bays reserved for drivers with disabilities.

Automated Teller Machines (ATMs)/Banks/Currency Exchange

Banking and ATM facilities are available at Ground Floor of the Hong Kong Convention and Exhibition Centre.

Bookstore Convention Hall Foyer

BreakPoint Books offers the latest and greatest books, CDs, and DVDs on computer animation, graphic design, gaming, 3D graphics, modeling, and digital artistry. The bookstore features recent books by SIGGRAPH speakers and award winners. Note: Bookstore refunds will only be processed during the conference. All bookstore policies are those of BreakPoint Books and not SIGGRAPH Asia 2011.

Cafeteria/Restaurants/Stand Catering

A variety of restaurants are available within Hong Kong Convention and Exhibition Centre. For booth catering, please call +852 2582 7885 or email catering@hkcec.com.

Child Care

Child care will not be provided at SIGGRAPH Asia 2011. Contact your hotel concierge for suggestions.

Conference Management Office Level 1, Room V104

If you have questions regarding SIGGRAPH Asia 2011, stop by this office any time during conference hours.

Exhibition Management Office Level 3, Room G312

Exhibition Management representatives are available during conference hours to meet with exhibitors and help with plans for exhibiting at SIGGRAPH Asia 2012.

Full Conference DVD-ROM

This digital publication contains the electronic version of the program content, including images and supplemental material. The content of the printed version of the ACM Transactions on Graphics (Conference Proceedings Special Issue) is also included on the Full Conference DVD-ROM. The DVD-ROM is included with all Full Conference Access registrations, and available for purchase at SIGGRAPH Asia 2011.

Lost and Found Exhibition Management Office, Level 3, Room G312

To inquire about lost items during the conference, please proceed to the Exhibition Management Office. All lost items (including badges) should be turned into this location where they will be logged and stored until the conclusion of the conference. After the conference, all lost and found items will be turned over to the Security office of Hong Kong Convention and Exhibition Centre

Merchandise Store Mezzanine

Your conference documentation (included with registration) must be picked up at the Merchandise Store. Conference documentation and pre-purchased merchandise will not be shipped, nor will refunds be given for any material that is not picked up at the Merchandise Store. Open during registration hours. The Full Conference DVD and other merchandise items are also available for purchase here.

Parking

Parking is available in the two underground car parks located at Harbour Road and Expo Drive Central. Parking fees are HKD 24.00 per hour.

Speaker Preparation Room Level 2, Room S223

Please pick up your badge, registration credentials, and conference information at the registration counter on the Ground Floor of Hong Kong Convention and Exhibition Centre, Harbour Road Entrance, before proceeding to the Speaker Preparation Room. You can collect your Speaker Ribbons and prepare your presentations at the Speaker Preparation Room.





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SIGGRAPH Asia 2011 Twitter Hashtags

Track your conversation through the following SIGGRAPH Asia 2011 Twitter hashtags:

Program/Event Name	Hashtags
Art Gallery	#siggraphasia #artgallery
Computer Animation Festival	#siggraphasia #caf
Courses	#siggraphasia #courses
Emerging Technologies	#siggraphasia #etech
Exhibition	#siggraphasia #exhibits
Exhibitor Tech Talks & Sessions	#siggraphasia #techtalks
Featured Speakers	#siggraphasia #speakers
Registration	#siggraphasia #registration
Special Sessions	#siggraphasia #specialsessions
Student Volunteers	#siggraphasia #sv
Technical Sketches & Posters	#siggraphasia #sketches #posters
Technical Papers	#siggraphasia #techpapers

Wireless Internet Access

SIGGRAPH Asia 2011 provides wireless network access in most areas of the convention center. To use the wireless network, attendees should have their own wireless cards.

Please refer to your device operating system and client adapter documentation and follow this procedure:

- Document all existing TCP/IP and wireless configuration information before you make any changes.
- 2. Configure your device to use DHCP.
- Configure your wireless adapter network name (SSID) to be 'sa2011'.
- 4. When prompted for the password, please enter 'sa2011'.

The SIGGRAPH Asia 2011 wireless network provides communications for conference attendees. We strive to provide an infrastructure as good as possible. There is however restrictions to the bandwidth and amount of users the network can support.



For details, please visit http://ecentre.cyberport.hk Enquiries: Tel: 31663900 Email: ecentre@cyberport.hk





Monday, 12 December

- Full Conference/Full Conference One-Day
- Basic Conference
- E Exhibits Only

08:0	00 – 18:30	
	Registration	Ground Floor, Harbour Road Entrance
	SIGGRAPH Asia Merchandise Store	Mezzanine
09:0	00 – 12:45	
•	Courses Introduction to Computer Graphics	Convention Hall C
•	Courses Perception in Graphics, Visualization, Virtual Environments and Animation	Room S226
•	Courses Time of Flight (ToF) Depth Sensor-based 3D Imaging Architecture for Future Display	Room S222

Room

S224 & S225

Courses

Modern OpenGL Programming

Monday, 12 December

- Full Conference/Full Conference One-Day
- Basic Conferen
- E Exhibits Only

14:1	15 – 18:00	
•	Courses Advances in New Interfaces for Musical Expression	Room S226
•	Courses Developing Visual Interfaces for Mobile Devices	Room S222
•	Courses How to write a SIGGRAPH paper	Convention Hall C
18:0	00 – 19:15	
	Technical Papers Fast Forward	Theater 1
19:3	80 – 20:15	
	Technical Sketches Fast Forward	Theater 1

■ Full Conference/Full Conference One-Day

▲ Basic Conference

E Exhibits Only

08:00	0 – 18:30	
	Registration	Ground Floor, Harbour Road Entrance
	SIGGRAPH Asia Merchandise Store	Mezzanine
09:00	0 – 18:00	
■ A E	Exhibition	Hall 3G
■ ▲	Posters Exhibition	Convention Hall Foyer
09:00) – 09:50	
•	Exhibitor Sessions NVIDIA Corporation – Cloud Rendering and IRAY – The Future of Rendering in the Cloud	Room S221
09:00) – 10:45	
	Courses Procedural Shading in RenderMan and Beyond	Room S222
•	Courses Introduction to OpenCL	Convention Hall C



Senior artists for a full length Animated Feature based on the Penguins of Madagascar.

Technicolor India in association with DreamWorks Animation SKG is seeking talented and motivated individuals to join the DreamWorks Dedicated Unit at Technicolor, India.

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Group -DreamWorks Dedicated Unit, Technicolor India https://www.facebook.com/groups/196254493725648/

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technicolor

- Full Conference/Full Conference One-Day
- ▲ Basic Conferer
- E Exhibits Only

Courses

Room S226

How to Write A Polarisation Ray Tracer

Technical Papers

Convention Hall B

- Shape Analysis and Deformation
 Pattern-Aware Shape
 Deformation Using Sliding
 Dockers
- Shape Space Exploration of Constrained Meshes
- Joint Shape Segmentation with Linear Programming
- Unsupervised Co-Segmentation of a Set of Shapes via Descriptor-Space Spectral Clustering

Room S225

Technical Sketches

Geometric Modeling and Processing

- Beady: Interactive Beadwork Design and Construction
- Parallel and Unbiased Poisson Disk Sampling on Arbitrary Surfaces
- Heterogeneous Particle-Based Simulation
- Fast and Automatic 3D Full Head Synthesis using iPhone

■ Full Conference/Full Conference One-Day

▲ Basic Conference

E Exhibits Only

09:0	00 – 12:45	
	Computer Animation Festival Animation Theater Screening	Theater 2
10:0	00 – 10:50	
■▲	Exhibitor Sessions NVIDIA Corporation – Character Clothing in PHYSX 3	Room S221
10:0	00 – 18:00	
	Exhibitor Sessions Autodesk Asia Pte Ltd – Don't Blend In. Stand Out with Autodesk Digital Entertainment Creation Solutions	Room S227
10:3	80 – 18:00	
■ ▲	Exhibitor Sessions The Foundry – SIGGRAPH Asia GEEKFEST 2011	Room S228
11:0	00 – 11:50	
	Exhibitor Sessions NVIDIA Corporation – Real-Time	Room S221

Water Simulation on the GPU

- Full Conference/Full Conference One-Day
- ▲ Basic Conferent
- E Exhibits Only

11:00 - 12:00

■ ▲ E Exhibitor Sessions

Convention Hall A

Pixar Animation Studios – "Pixar's RenderMan 2011 Roadmap" La Luna, Cars 2, and the Latest Rendering Technologies

11:00 - 13:00

■ ▲ E Exhibitor Tech Talks

Exhibitor Tech Talk Stage

DreamWorks Dedicated Unit, Technicolor India – Opportunities in India to work on DreamWorks Feature Projects

11:00 - 13:00

Featured Speakers

Theater 1

The Influence of Chinese Culture in Designing Kung Fu Panda 2 Jennifer Yuh Nelson and Raymond Zibach, DreamWorks Animation

13:00 - 13:50

■ ▲ Exhibitor Sessions

Room S221

NVIDIA Corporation – Graphics Virtualization and Remoting

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

13:00 - 14:00

■ ▲ Computer Animation Festival - Production Sessions

Mythical creatures and magical environments "Pirates of the Caribbean: On Stranger Tides"

13:30 - 14:30

■ ▲ E Exhibitor Tech Talks

The Bakery – A New Approach to Lighting - Bakery Relight™

Book Signing

with Jennifer Yuh Nelson and Raymond Zibach

Exhibitor Tech Talk Stage

Theater 2

Bookstore, Convention Hall Foyer

13:15 - 14:45

■ ▲ Courses

Stereoscopy from XY to Z Sponsored by Digital Magic Theater 1

14:00 - 14:50

■ ▲ Exhibitor Sessions

NVIDIA Corporation – Interacting with Huge Particle Simulations in MAYA Using the GPU (Using MAXIMUS)

Room S221

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

14:15 - 16:00

Technical Papers

Video and Capture

- Modeling and Generating Moving Trees from Video
- Candid Portrait Selection from
 Video
- Multiview Face Capture Using Polarized Spherical Gradient Illumination
- Video Face Replacement

Technical Papers NPR

Convention Hall C

Convention Hall B

- A Rendering Framework for Multiscale Views of 3D Models
- Mixed-Order Compositing for 3D Painting
- Animated Construction of Line Drawings
- Sketch-based Dynamic Illustration of Fluid Systems

Technical Sketches

Room S225

Geometric Processing Techniques

- A Hybrid Object-Image Space Approach for Efficient and Robust Line Drawings
- A Parallel Constraint Solver for a Rigid Body Simulation
- Constant-Time All-Pairs Geodesic Distance Query On Triangle Meshes

20

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only
 - Automatic Generation of 3-D Building Models by Straight Skeleton

14:15 - 16:45

■ Computer Animation Theater 2 Festival Animation Theater Screening

14:15 - 18:00

Courses	Room S226
Perceptually Inspired Methods	
for Naturally Navigating Virtual	
Worlds	

■ Courses Room S222
OpenCL by Example - Advanced
Topics

Symposium on Apps
Building Augmented Reality
experiences using Layar Vision
and Lavar Player

15:00 - 15:50

■ A Exhibitor Sessions Room S221

NVIDIA Corporation – Advanced

Production Techniques with

Mental Ray

- Full Conference/Full Conference One-Day
- ▲ Basic Confere
- E Exhibits Only

15:00 - 16:00

■ ▲ E Exhibitor Sessions

Convention Hall A

Pixar Animation Studios – "Pixar's RenderMan 2011 Roadmap" La Luna, Cars 2, and the Latest Rendering Technologies

15:00 - 16:15

■ ▲ Special Sessions

Theater 1

The Art of Making Stereoscopic 3D Animated Films Sponsored by Digital Magic

15:00 - 17:00

■ E Exhibitor Tech Talks

Exhibitor Tech Talk Stage

Lucasfilm Singapore – Successful Creative Collaboration across Time and Space

16:00 - 17:50

■ ▲ Exhibitor Sessions

Room S221

NVIDIA Corporation – NVIDIA Product Demonstration and Q & A

- Full Conference/Full Conference One-Day
- ▲ Basic Confere
- E Exhibits Only

16:15 - 18:00

■ Technical Papers

Quads and Friends

- Convention Hall C
- General Planar Quadrilateral Mesh Design Using Conjugate Direction Field
- Connectivity Editing for Quadrilateral Meshes
- Simple Quad Domains for Field Aligned Mesh Parametrization
- Boundary Aligned Smooth 3D Cross-Frame Field

Technical Sketches Light & Illumination

Room S225

- Fast Global Illumination Baking via Ray-Bundles
- Efficient Search of Lightcuts by Spatial Clustering
- Bidirectional Light Transport with Vertex Merging
- Capturing Shape and Reflectance of Food

16:15 - 18:25

Technical Papers

Convention Hall B

Contact, Collision and Congestion

- Interactive Hybrid Simulation of Large-Scale Traffic

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only
 - Pattern-Guided Smoke Animation with Lagrangian Coherent Structure
 - Interference Aware Geometric Modeling
 - Imperceptible Relaxation of Collision Avoidance Constraints in Virtual Crowds
 - A Hybrid Iterative Solver for Robustly Capturing Coulomb Friction in Hair Dynamics

16:30 - 18:30

■ ▲ Computer Animation Festival – 3D Symposium

Stereoscopic Production Sessions Sponsored by Digital Magic Theater 1

19.00 - 21.00

Computer Animation Festival

Electronic Theater Screening

Theater 1

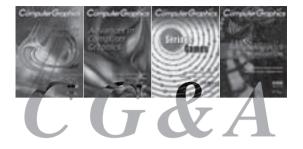
19:00 - 22:00

SIGGRAPH Asia 2011 Networking Reception

(Ticketed Access)

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- E

08:00 – 18:30	
Registration	Ground Floor,
	Harbour Road
	Entrance

SIGGRAPH Asia	Mezzanine
Merchandise Store	

09:00 - 18:00

■ A E	Exhibition	Hall 3G
■ A E	Exhibition	Hall 3G

Posters Exhibition	Convention Hall
	Foyer

09:00 - 10:00

Art Gallery Talks Exhibitor Tech What it Means to Wonder Talk Stage

- Life Twitter Live: Internet of everyday objects or places
 - Sweet Home

09:00 - 10:45

Courses Theater 1 What's Next? The Fourth Generation of Computer Graphics (2010-2025)

- Full Conference/Full Conference One-Day
- Basic Confere
- E Exhibits Only

Symposium on Apps

Room S221

Creativity with ARTags; a Mobile Augmented Reality App for Android

Technical Papers Material Editing

Convention Hall B

- Material Matting
- Physically-Based Interactive Bi-Scale Material Design
- AppGen: Interactive Material Modeling from a Single Image
- AppWarp: Retargeting Measured Materials by Appearance-Space Warping

Technical Papers

Convention Hall C

- 3D Capture and Reconstruction
- Online Reconstruction of 3D Objects from Arbitrary Cross-Sections
- Fusion of Depth Maps with Multiple Scales
- Global Parametrization of Range Image Sets

Room S225

Room S226

■ Full Conference/Full Conference One-Day

Technical Sketches

- ▲ Basic Conference
- E Exhibits Only

Te	exture & Terrain Rendering	
-	Fast Multiresolution Terrain	
	Rendering with Symmetric Cluster Sets	
_	Non-Local Image	
	Reconstruction for Efficient	
	Bidirectional Texture Function	
	(BTF) Synthesis	
-	A Space Efficient and	
	Hardware Friendly	
	Implementation of Ptex	
-	Flexible Texture Compression	
	Using Bounded Integer	
	Sequence Encoding	
09:00 -	12:45	
	computer Animation	Theater 2
_	estival	
Α	nimation Theater Screening	
• C	courses	Room S222
G	PU Shaders for OpenGL 4.0	

Courses

Design

Cross-Cultural User-Experience

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

10:00 - 1	0:40
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Emerging TechnologiesTalks

- The Octagon
- Mobie: A Movie Brain Interactive Editor

Exhibitor Tech Talk Stage

10:00 - 11:00

■ ▲ E Get Involved

SIGGRAPH Asia 2012 Booth, Convention Hall Foyer

10:00 - 17:00

■ ▲ Exhibitor Sessions

The Khronos Group Inc -Khronos "DevU" Educational Sessions

Room S228

10:00 - 18:00

■ ▲ Exhibitor Sessions

Autodesk Asia Pte Ltd – Don't Blend In. Stand Out with Autodesk Digital Entertainment Creation Solutions

Room S227

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

11:00 - 12:00

■ ▲ E Exhibitor Sessions

Convention Hall A

Pixar Animation Studios – "Pixar's RenderMan 2011 Roadmap" La Luna, Cars 2, and the Latest Rendering Technologies

11:00 - 12:30

■ ▲ Featured Speakers

Theater 1

More than what the Eye Sees: Interaction and Graphics Bill Buxton, Microsoft Research

11:00 - 12:45

■ Technical Papers

Convention Hall B

- Shading and Shadows
- Image-based Bidirectional Scene Reprojection
- A Shading Reuse Method for Efficient Micropolygon Ray Tracing
- Genetic Programming for Shader Simplification
- An Efficient Alias-free Shadow Algorithm for Opaque and Transparent Objects using pertriangle Shadow Volumes

- Full Conference/Full Conference One-Day
- ▲ Basic Conferen
- E Exhibits Only

Technical Sketches

Production and Visual Effects

- Stretchable Cartoon Editing for Skeletal Captured Animations
- Free Fall Motion Synthesis
- Extinction Transmittance Maps
- Distribution-Aware Image Color Transfer

11:00 - 13:00

■ ▲ E Exhibitor Tech Talks

Contact Singapore – Work in Singapore – Global Opportunities in the Interactive & Digital Media Sector

13:00 - 14:00

Computer Animation Festival - Production Sessions

Coming Full Circle with Transformers

13:00 - 15:00

■ ▲ E Exhibitor Tech Talks

The White Rabbit Animation Inc. – TWR3D – A Fast and Costeffective 2D to 3D Conversion Workflow for Theatrical Content

Room S225

Exhibitor Tech Talk Stage

Theater 2

Exhibitor Tech Talk Stage

- Full Conference/Full Conference One-Day
- ▲ Basic Conferer
- E Exhibits Only

13:30 - 1	5:00	
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■ ▲ Poster Presentations Convention Hall Foyer

14:15 - 15:00

Symposium on Apps Back to Hardware: Introducing "Mobile Mates" for Health

14:15 - 16:00

Special Sessions Puss in Boots: India's Role in the Making of an Animated

Theater 1

Blockbuster Technical Papers

Image Mix and Match

- Data-driven Visual Similarity for Cross-domain Image Matching
- Arcimboldo-like Collage Using Internet Images
- Semantic Colorization with Internet Images
- Rendering Synthetic Objects into Legacy Photographs

Convention Hall B

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

Technical Papers

Rendering: Accuracy and Efficiency

- Displacement Interpolation Using Lagrangian Mass Transport
- Adaptive Sampling and Reconstruction using Greedy Error Minimization
- T&l Engine: Traversal and Intersection Engine for Hardware Accelerated Ray Tracing
- Coherent Parallel Hashing

Convention Hall C

Technical Sketches

Animation

- Video-Based Toon Character from Surface Performance Capture
- Screen Space Animation of Fire
- Spline Motion Transitions in Linear Subspaces
- An Efficient Calculation Method of Spherical Signed Distance Functions for Real-Time Rendering

Room S225

E

14:15 - 16:45

Computer Animation Festival

Animation Theater Screening

14.15 - 18.00

Courses

FCam: An architecture and API for computational cameras

Courses Information Theory in Computer Graphics and Visualization

15.00 - 16.00

Exhibitor Sessions

Pixar Animation Studios - "Pixar's RenderMan 2011 Roadmap" La Luna, Cars 2, and the Latest Rendering Technologies

15.00 - 17.00

■ A E **Exhibitor Tech Talks** MTECH Engineering - Serious Factory - How 3D could serve vour marketing strategy

Talk Stage

Theater 2

Room S222

Room S226

Exhibitor Tech

Convention Hall A

34

Wednesday, 14 December

- Full Conference/Full Conference One-Day
- Basic Confere
- E Exhibits Only

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	Ο.	10	_	ľ).(ハノ

 Symposium on Apps
 "Power" and energy of Visual Computing Room S221

15:30 - 16:30

■ ▲ E Get Involved

SIGGRAPH Asia 2012 Booth, Convention Hall Foyer

16:00 - 19:00

■ A Exhibitor Sessions Chaos Group – V-Ray® 2.

Chaos Group – V-Ray® 2.0 for 3DS MAX and MAYA – The Latest Trendsetting Rendering Technologies by Chaos Group Room S224

16:15 - 18:00

Symposium on Apps

Mobile 2.0 - The Future of Mobile Apps: Mashing It Up and Getting It Out There!

Wednesday, 14 December

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

Technical Papers

Convention Hall C

- Shape & Vector Representations
- Freeform Vector Graphics with Controlled Thin-plate Splines
- Multiscale Vector Volumes
- Slices: A Shape-Proxy Based on Planar Sections
- Coons BVH for Freeform Geometric Models

Technical Sketches

Room S225

- User Interaction
 - Ambient Wall
 - Interactive Climbing Route Design Using a Simulated Virtual Climber
 - A Sketch-based Interface to Script Comics Reading
 - VolVision

16:15 - 18:25

Convention Hall B

Technical Papers Animation

- Artist-Friendly Facial Animation Retargeting
- Controlling Physics-based Characters using Soft Contacts
- Compression and Direct Manipulation of Complex Blendshape Models

Wednesday, 14 December

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only
 - Modal-Space Control for Articulated Characters
 - Stretchable and Twistable Bones for Skeletal Shape Deformation

19:00 - 21:00

■ Computer Animation Theater 1 Festival Electronic Theater Screening

19:00 - 23:00

■ ▲ Exhibitor Sessions Convention Hall C Side Effects Software – Houdini User Group Event

- A
- E

08:00	_ 1	18:30
CO.CC	_	10.00

Registration	Ground Floor, Harbour Road
	Entrance
SIGGRAPH Asia Merchandise Store	Mezzanine
09:00 – 18:00	

■ A E

Exhibition

Posters Exhibition

09.00 - 10.20

Art Gallery Talks

- Urban Spirits, a digital street art creation
- We are Movement
- Future architechture in Asia
- The future of Creative Industry

09:00 - 10:45

-**Education Panel**

Approaches and Challenges towards Animation Education The following networking reception is sponsored by Media Design School

Exhibitor Tech Talk Stage

Convention Hall Fover

Hall 3G

PIPELINE

www.pipelinemag.com

Hong Kong **gallery guide**

www.hkgalleryguide.com



- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

Technical Papers Convention Hall B

Cameras and Appearance

- Practical Spectral Characterization of Trichromatic Cameras
- Single View Reflectance Capture Using Multiplexed Scattering and Time-of-Flight Imaging
- Estimating Dual-scale
 Properties of Glossy Surfaces
 from Step-edge Lighting
- Interactive Hair Rendering and Appearance Editing under Environment Lighting

Room S225

Technical Sketches

Image Processing

- Tangible Images
- Effective Despeckling of High Dynamic Range (HDR) Images
- Interactive 2D and Volume Image Segmentation Using Level Sets of Probabilities
- Translucent Material Transfer Based on Single Images

09:00 - 12:45

■ ▲ Computer Animation Festival

Animation Theater Screening

Theater 2

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

•	Courses Introduction to Networked Graphics	Room S22	
•	Courses Elements of Geometry Processing	Convention Hall C	
09:00) – 18:00		
•	Courses Multidimensional Image Retargeting	Room S222	
10:00) – 17:00		
•	Exhibitor Sessions The Khronos Group Inc - Khronos "DevU" Educational Sessions	Room S228	
10:00) – 18:00		
■ ▲	Exhibitor Sessions Autodesk Asia Pte Ltd – Don't Blend In. Stand Out with Autodesk Digital Entertainment Creation Solutions	Room S227	

- Full Conference/Full Conference One-Day
- ▲ Basic Confere
- E Exhibits Only

10:20 - 12:40

Emerging Technologies Talks

- Joyman: A Human-Scale Joystick for Navigating in Virtual Worlds
- Throwable Panoramic Ball Camera
- Polychrome Paper Computing
- Ungrounded Handheld Device for Simulating High-Forces of Ball Impacts in Virtual Tennis
- Visual Tactile Integration for Tickling
- EaTheremin
- Be your avatar: real-time facial animation using the Kinect

11:00 - 12:00

■ ▲ E Exhibitor Sessions

Pixar Animation Studios – "Pixar's RenderMan 2011 Roadmap" La Luna, Cars 2, and the Latest Rendering Technologies

Exhibitor Tech Talk Stage

Convention Hall A

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

11:00 - 12:45

Technical Papers Image Processing

Processina

- Image Smoothing via L0
 Gradient Minimization
- Convolution Pyramids
- GPU-Efficient Recursive Filtering and Summed-Area Tables
- Multigrid and Multilevel Preconditioners for Computational Photography

Technical Sketches Image System & Video

 Scalable Motion-Aware Panoramic Videos

- A System for Editing Sky Images Using an Image Database
- Face Recognition and Clustering for Home Photos
- Stereoscopic 3D Experience Optimization Using Cropping and Warping

11:15 - 12:30

■ Featured Speakers The Future of Computer Graphics Ken Perlin. New York University

Theater 1

Convention Hall B

- Full Conference/Full Conference One-Day
- ▲ Basic Confere
- E Exhibits Only

13:00 - 14:00

■ ▲ Computer Animation Festival - Production Sessions

Star Wars: The Clone Wars – A Rigging Challenge

13:00 - 15:00

■ ▲ E Exhibitor Tech Talks Lucasfilm Singapore – Looking and Seeing... Differently

Exhibitor Tech Talk Stage

14:15 - 16:00

■ ▲ Special Sessions Harry Potter and the

Harry Potter and the Deathly Hallows Part 2

Theater 1

Theater 2

Technical Papers Light Transport

- Modular Radiance Transfer

- LightSlice: Matrix Slice Sampling for the Many-Lights Problem
- Practical Filtering for Efficient Ray-traced Directional Occlusion
- Progressive Photon Beams

Convention Hall B

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

Technical Papers

Convention Hall C

- Architectural Design and Analysis
- InSitu: Sketching Architectural Designs in Context
- Structure-preserving Retargeting of Irregular 3D Architecture
- Adaptive Partitioning of Urban Facades
- Conjoining Gestalt Rules for Abstraction of Architectural Drawings

Technical Sketches

- Virtual and Augmented Reality
 - Towards Hairstyle
 Reconstruction Using Thermal
 Imaging
 - Enabling On-Set Stereoscopic Mixed Reality (MR)-Based Previsualization for 3D Filmmaking
 - A Practical Visualization Strategy for Large-Scale Supernovae Computational Fluid Dynamics (CFD) Simulations
 - Hardware Instancing for Real-Time Realistic Forest Rendering

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

14:15 - 16:45

■ ▲ Computer Animation Festival

Animation Theater Screening

Theater 2

14:15 - 18:00

Courses

Advanced Textural Representation of Materials Appearance Room S226

15:00 - 15:40

Emerging TechnologiesTalks

- 360-Degree Fog Projection Interactive Display
- FoodGenie: Play with your food

Exhibitor Tech Talk Stage

15:00 - 16:00

■ ▲ E Exhibitor Sessions

Convention Hall A

Pixar Animation Studios – "Pixar's RenderMan 2011 Roadmap" La Luna, Cars 2, and the Latest Rendering Technologies

- Full Conference/Full Conference One-Day
- ▲ Basic Conferen
- E Exhibits Only

15:40 - 17:00

Art Gallery Talks Time of Doubles

- Time of Doubles
- MIROIR: the Creation of an Antropomorphic Augmented Reality Installation
- Mont
- Trembling Creatures by Cyland Media Art Lab

16:15 - 18:00

Computer Animation Festival

Electronic Theater Screening

Technical Sketches

Art, Design & Computer Graphics Education

- Fractal Strokes
- 3D Animation Education in the US and Japan
- Procedural Modeling of Pebble Mosaics
- Synthesizing Rope Patterns of Jomon Ware in a Virtual Space

Exhibitor Tech Talk Stage

Theater 1

- Full Conference/Full Conference One-Day
- ▲ Basic Conference
- E Exhibits Only

16:15 - 18:25

Technical Papers

Stereo and Light Fields

- Convention Hall B
- Polarization Fields: Dynamic Light Field Display Using Multi-Layer Liquid Crystal Displays
- Computing and Fabricating Multilayer Models
- C1x6: A Stereoscopic Six-User Display for Co-located Collaboration in Shared Virtual Environments
- OSCAM Optimized
 Stereoscopic Camera Control for Interactive 3D
- Multi-perspective Stereoscopy from Light Fields

19:00 - 21:00

Computer Animation Festival

Electronic Theater Screening

Theater 1



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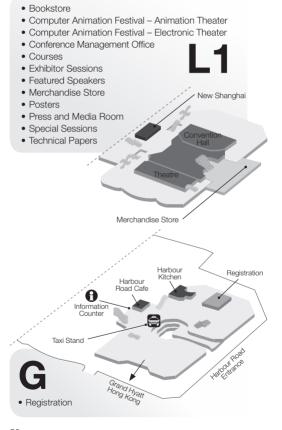
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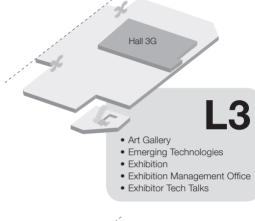


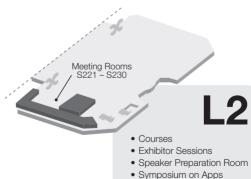
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HKCEC Floorplan



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Technical Sketches

Notes

Notes

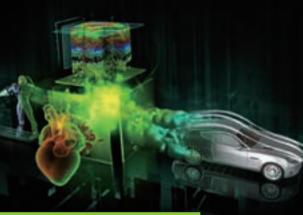


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