

The 11th ACM SIGGRAPH Conference and Exhibition on Computer Graphics and Interactive Techniques in Asia



PROGRAM GUIDE

CROSS/OVER

CONFERENCE 4 – 7 December 2018 EXHIBITION 5 – 7 December 2018 Tokyo International Forum, Japan

SA2018.SIGGRAPH.ORG

Sponsored by







Shuzo John Shiota Polygon Pictures, Japan

CAF Producer

Kanako Tani Polygon Pictures, Japan

CAF Administrator

Reina Fukuda Polygon Pictures, Japan

CAF Jury

Saraswathi "Vani" Balgam Filmmaker, Creative Executive, India

Jinny Hyejin Choo Korea National University of Arts, South Korea

Yoriko Ito Art Drector/Visual Development Artist, Japan

Pol Jeremias-Vila Pixar Animation Studios, USA

Machiko Kusahara

Media Scholar / Media Curator, Japan

John McIntosh ShanghaiTech University, China

Seoro Oh

Chungkan College of Cultural Industries, South Korea

CAF Reviewers

Takahiko Akiyama 4D Brain Inc., Japan

Tomasz Bednarz QUT Institute for Future Environments, Australia

Prashant Buyyala
Oriental DreamWorks, China

Ethan Chang Shanghai Institute of Visual Art, China

S Peter Chanthanakone University of Iowa, USA

Dayne Cowan VHQ Media, Singapore

Nop Dharmavanich E57, Thailand

Philippe Gluckman Mikros Animation India, India

Sabine Hirtes
University of Applied Sciences Offenburg, Germany

John Hughes Tau Films, USA Siva Kumar Kasetty The Monk Studios, India

June Kim UNSW Art & Design, Australia

Kok Sen Lai 3dsense Media School, Singapore

Bill E. Miller Wizanima Inc., Japan

Tomoe Moriyama Tokyo University of Arts, Japan

Mike Nguyen Kaywon School of Art & Design, South Korea

Koichi Noguchi Toei Animation, Japan

Andrew Ooi Inspidea Studios, Malaysia

Dagan Potter
Oriental DreamWorks, China

Rita Street Radar Cartoons, USA

Paul Wang Pearl Studios, USA



Kenji Ishimaru Kodansha VR Lab., Japan

VR Theater Administrator

Yumiko Kano Kodansha VR Lab., Japan

VR Theater Jury

Tuna Bora Independent Artist / Filmmaker, USA

Katsutoshi Machiba eje, Japan

VR Theater Technical Director

Daisuke Miyagawa Polygon Pictures, Japan

Kaei Sou SQUARE ENIX, Japan

VR Theater Technical Support

Wong Wai Keat (Justin) SQUARE ENIX, Japan

Stephanie Timmins SQUARE ENIX, Japan

Sangwon Kim SQUARE ENIX, Japan

Production Gallery Director

Norimasa Nishihara Born Digital, Japan

Production Gallery Curator

Sanae Hiraya Born Digital, Japan

Production Gallery Designer

Aki Nakae Born Digital, Japan

Production Gallery Artists

Haruhiko Shono CG Artist, Japan

Takayuki Hayashi Digital Matte Painter, Japan

Yoshinori Motouchi Model Maker/Miniature Artist, Japan

Toshiyuki Kimura Concept/Matte Artist, VFX Supervisor, Fine Artist, Japan

Tomo Hyakutake

Character Designer, Special Make-up Artist, Model Maker, Japan

Takehiko Hoashi CEO, Picapixels, Japan Outside Director, AURAS, Taiwan

Naoe Tojo Digital Matte Painter, Japan

Kenichiro Tomiyasu Concept Artist, Japan

AKIHITO

Fine Artist, Special Effects Make-up Artist, Japan

Eiji Kitada

Environment Modeling Supervisor, ModelingCafe, Japan

Sachiko Eba

Digital Matte Painter, Fude, Japan

Takuya Suzuki

Environment & Props Modeling Supervisor Photon Arts, Japan

Kouji Tajima

Concept Artist, Japan

Yuuki Morita

Creature Artist, CG Artist, Japan

Keita Okada

Digital Sculpture, Japan

Masahiro Sawada

Concept Artist, Japan

Animation Theater

from Tuesday, 04 to Friday, 07 December 2018

Venue	G407 4F, Glass Building
9:00-18:00	Animation Theater: Rising Stars – Student Films (40mins) Animation Theater: Shorts and Features 1 (40mins) Animation Theater: Shorts and Features 2 (40mins)

Electronic Theater & Production Sessions Tuesday, 04 December 2018

Venue	G502 5F, Glass Building	Hall C 4F, C Block
16:15-18:00	Production Session: Making of "Out of the Cradle" Luminous Productions	

Wednesday, 05 December 2018

Venue	G502 5F, Glass Building	Hall C 4F, C Block
9:00-10:45	Production Session: The Making of Pixar's Bao: a Production Panel Pixar Animation Studios	
11:00-12:45		Computer Animation Festival Award Ceremony
14:15-16:00	Special Screening: "Batman Ninja"	
16:15-18:00	Production Session: Texture Look Created Post-Rendering: "Batman Ninja" Kamikaze Douga *日本語(逐次英訳)	Computer Animation Festival Opening Ceremony
		Pre-Show "AI DJ PROJECT" by Qosmo
		Electronic Theater (110mins) 17:00-19:00

Thursday, 06 December 2018

Venue	G502 5F, Glass Building	Hall C 4F, C Block
9:00-10:45	Production Session: Winner Talk: Best in Show "L'oiseau qui danse" Jean-Marie Marbach	Production Session: 9:30-10:30 Cinematography of "Incredibles 2" – Function and Style Erik Smitt, Pixar Animation Studios
11:00-12:45	Production Session: SONARIA: The Making of a Sound-driven, 6DOF Spotlight Story Scot Stafford, Kevin Dart	
14:15-16:00	Production Session: Implementing Unreal Engine 4 to Anime Polygon Pictures *日本語(逐次英訳)	
16:15-18:00	Production Session: Creating an Animation in 64kB: A Dive Into The Making of Immersion Ctrl-Alt-Test	
18:15-20:15		Electronic Theater (110mins)

Friday, 07 December 2018

Venue	G502 5F, Glass Building	Hall C 4F, C Block
9:00-10:45	Special Screening: "Land of the Lustrous"	
11:00-12:45	Production Session: TV Animation: "Land of the Lustrous" Approaching Color and Style for CG from Hand-drawn Concept Arts Orange *日本語(逐次英訳)	
13:30-14:15	Production Session: Incredible Environments : Building the World of "Incredibles 2" Pixar Animation Studios	Electronic Theater (110mins) 13:00-15:00
14:30-16:15	Production Session: Reinterpreting Memorable Characters in "Incredibles 2" Pixar Animation Studios	

Award Ceremony

Hall C (4F, C Block) Wednesday, 05 December | 11:00-12:45

Winner Talk: Best in Show "L'oiseau qui danse"

G502 (5F, Glass Building) Thursday, 06 December | 9:00-10:45

BEST IN SHOW



L'oiseau qui danse

directed by Jean-Marie Marbach France

Created and animated with particles in the spirit of Visual Music, this music video for Canadian electro band Tennyson features the journey of an origami bird in a mysterious field of light.

BEST STUDENT PROJECT



Reverie

directed by Philip Louis Piaget Rodriguez The Animation Workshop, VIA University College Mexico/Denmark

Deep in the harsh countryside, where life fades with every breath, a boy tormented with grief battles an inescapable beast.

JURY SPECIAL PRIZE



Vermin

directed by Jérémie Becquer The Animation Workshop, VIA University College Luxembourg/Denmark

A Rat poet, whose hopeful poetry contrasts the world in which he lives in, gets confronted with the harshness of a society bias towards Mice.

Electronic Theater

Electronic Theater: Pre-Show "AI DJ PROJECT" by Qosmo

Hall C (4F, C Block)

Wednesday, 05 December | 16:15 doors open, 16:35 show starts



Photo by Yasuhiro Tani Courtesy of Yamaguchi Center for Arts and Media [YCAM]

AI DJ PROJECT - A dialogue between AI and a human Nao Tokui + Shoya Dozono (Qosmo)

"AI DJ Project – A dialogue between AI and a human" is a live performance featuring an Artificial Intelligence (AI) DJ playing alongside a human DJ. Utilizing deep neural network technology, the AI system selects and mixes songs and performs other musical tasks. Playing back to back, each DJ selects one song at a time, embodying a dialogue between the human and AI through music.

Electronic Theater (110mins)

Hall C (4F, C Block) Wednesday, 05 December | 17:00-19:00 Thursday, 06 December | 18:15-20:15 Friday, 07 December | 13:00-15:00

Bilby



directed by Liron Topaz, Pierre Perifel, JP Sans Dreamworks, USA

Reflection



directed by Ihsu Yoon Giantstep, South Korea

Grand Bassin



directed by Héloïse Courtois, Chloé Plat Victori Jalabert, Adèle Raigneau France

Bacchus



directed by Rikke Alma Krogshave Planeta Denmark

Electronic Theater

Pulse



directed by Sarah Forest France

Out of the Cradle



directed by Isamu Watamori Luminous Productions, Japan

One Small Step



directed by Andrew Chesworth, Bobby Pontillas Taiko Animation Studios, USA

How To Paint Your Rainbow



directed by Erick Oh BEASTS AND NATIVES ALIKE, USA

Mayday - Final Chapter



directed by Muh Chen GRASS JELLY FILM, Taiwan

Book of the Dead



directed by Veselin Efremov Unity Technologies, Sweden

Oculus Malus



directed by Félix Benicourt, Maxime Blin, Mathieu Bouzard, Camille Bullet, Valentin Chotel, Adrien Kottelat, Quentin Masingarbe, Dorian Mouty, France

Cocolors



directed by Toshihisa Yokoshima COCOLORS Kamikaze Douga, Japan

The Bolt Connection



directed by Nicolas Lebas France

Reverie



directed by Philip Louis Piaget Rodriguez The Animation Workshop VIA University College, Mexico/Denmark

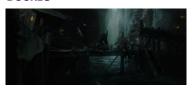
COMPUTER ANIMATION FESTIVAL Electronic Theater

Wild Love



directed by Paul Autric, Quentin Camus Maryka Laudet , Léa Georges, Zoé Sottiaux, Corentin Yvergniaux, France

Booxze



directed by Till Sander-Titgemeyer, Diego Hauenstein Filmakademie Baden-Württemberg GmbH, Germany

Hors Piste



directed by Léo Brunel, Loris Cavalier, Camille Jalabert, Oscar Mallet, France

L'oiseau qui danse



directed by Jean-Marie Marbach France

Digital Actor: Albert Einstein



directed by Leszek Plichta Filmakademie Baden-Württemberg GmbH, Germany

The Stained Club



directed by Mélanie Lopez France

Vermin



directed by Jérémie Becquer The Animation Workshop VIA University College, Luxemburg/Denmark

Animation Theater: Rising Stars – Student Films (40mins)

G407 (4F, Glass Building) from Tuesday, 04 to Friday, 07 December | 9:00-18:00

Game Changer



directed by Aviv A. Mano Ringling College of Art and Design, USA

Undiscovered



directed by Sara Litzenberger Savannah College of Art and Design, USA

Inheritor



directed by Napatsorn Potranun Rangsit University, Thailand

Stuffed



directed by Élise Simoulin Supinfocom RUBIKA, France

Lillandril



directed by Margaux Tamic Pôle IIID école d'animation, France

City of Memories



directed by Signe Tveitan The Animation Workshop VIA University College, Denmark

Sans Gravité



directed by Charline Parisot Supinfocom RUBIKA, France

Animation Theater: Shorts and Features 1 (40mins)

G407 (4F, Glass Building) from Tuesday, 04 to Friday, 07 December | 9:00-18:00

Ocean of Oblivion



directed by Seong-young Kim Pixar, USA

God of War 4 TV Commercial



directed by UNIT IMAGE, France

Miazmat



directed by Klaudiusz Wesolowski Platige Image, Poland

Assassin's Creed Origins Cinematic Trailer



directed by István Zorkóczy DIGIC Pictures, Hungary

St(r)ay



directed by Chiang Yao FREAK Agency, Spain

Grands Canons



directed by Alain Biet France

Bloeistraat 11



directed by Nienke Deutz France

Animation Theater: Shorts and Features 2 (40mins)

G407 (4F, Glass Building) from Tuesday, 04 to Friday, 07 December | 9:00-18:00

Robhot



directed by Donato Sansone Italy

Sonder



directed by Neth Nom Soba Productions, USA

An Island



directed by Rory Byrne And Maps And Plans, Ireland

Le Minor



directed by Tai Wedekind

Electronic Theater and Animation Theater sponsored by







Digital Projection Partner



computer animation festival Production Sessions

Making of "Out of the Cradle"

G502 (5F, Glass Building) Tuesday, 04 December | 16:15-18:00



"Out of the Cradle" is an innovative documentary TV program that employs the latest cutting-edge computer graphics, and traces mankind's footsteps back to Africa, as based on the most recent academic theories. Without question, most expert studies on this topic in writing, are far too esoteric for the average person. And though the injection of an entertainment element into such areas of academia may seem the ideal solution for the purposes of education, it's often easier said than done. With this new documentary, we believe that we were able to attain this objective, by utilizing our technical skills in visual expression honed through years of making video games and full-length CG movies. In this particular session, we would like to introduce you to all the activities and work that went into this program up until its completion.

- Ryuhei Ozai, Luminous Productions, Japan
- Isamu Hasegawa, Luminous Productions, Japan
- · Shuhei Shibata, NHK, Japan

The Making of Pixar's Bao: a Production Panel

G502 (5F, Glass Building) Wednesday, 05 December | 9:00-10:45



"Bao" tells the story of an aging Chinese mom suffering from empty nest syndrome who gets another chance at motherhood when one of her dumplings springs to life as a lively, giggly dumpling boy. Dive into the production process of Pixar's latest animated short, with a cross-disciplinary group of artists who brought first time director, Domee Shi's vision to life. We'll explore the early inspiration for the story, survey the art that inspired the look and cinematography of the short, examine the efforts that went into bringing graphically appealing characters to life, and discuss the challenges of creating a culinary delight for the eyes.

- Ian Megibben, Technical Supervisor, Director of Photography(Lighting)
- Rona Liu, Production Designer
- Patrick Lin, Director of Photography(Camera)
- Mara MacMahon, Character Artist
- Domee Shi, Director Pixar Animation Studios, USA

Texture Look Created Post-Rendering: "Batman Ninja"

G502 (5F, Glass Building) Wednesday, 05 December | Special Screening 14:15-16:00, Session 16:15-18:00



Batman Ninja, Kamikaze Douga's first full-length theatrical offering, was released this year. Almost all of the character animation in the film was created in 3DCG, mainly using LightWave. Employing materials that were actually used during production, the speakers will explain the process they used to bring the characters to the screen looking nearly exactly as designed by Takashi Okazaki.

- Takanobu Mizuno, cgi Director
- Shunya Iwamoto, Rendering Chief Kamikaze Douga, Japan

Cinematography of Incredibles 2 – Function and Style

Hall C (4F, C Block) Thursday, 06 December | 9:30-10:30

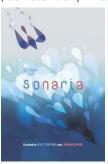


Exploring the visual language of i2, we will cover influences and motivations both new and familiar to this sequel. Together we will explore visual concepts, and then talk in detail about our methods for realizing those designs to achieve our cinematic goals.

 Erik Smitt, Director of Photography Pixar Animation Studios, USA

SONARIA: The Making of a Sound-driven, 6DOF Spotlight Story

G502 (5F, Glass Building) Thursday, 06 December | 11:00-12:45



Sonaria is a short VR film directed by Scot Stafford and Chromosphere. It is a sound-driven film that pushes audio and interactive 6DOF storytelling forward. Our challenge: create an immersive 360º interactive film that can only be told in 6DOF VR; quickly transport the audience through a dozen environments, from the deep sea to above the clouds, without making the audience dizzy; combine richly detailed audio with stylized and minimalist art; and make it run in real time on a wide range of devices, from mobile phones to the latest VR headgear.

- Scot Stafford Google Spotlight Stories / Pollen Music Group, USA
- Kevin Dart Chromosphere, USA

Implementing Unreal Engine 4 to Anime

G502 (5F, Glass Building) Thursday, 06 December | 14:15-16:00



Polygon Pictures' "Project Layered" is (possibly) the first Japanese "Anime" style animation series implemented real-time engine to its production. We would like to introduce our challenges on pipeline with Unreal Engine 4; difficulties and achievements.

- Daisuke Miyagawa
- Yasuhisa Niizato

Polygon Pictures, Japan



G502 (5F, Glass Building) Thursday, 06 December | 16:15-18:00



We will present some of the techniques used to create "H - Immersion". This animation is rendered in real-time on consumer level hardware, but adds another technical challenge on top of it: it fits entirely within a single 64kB (65536 bytes) executable binary file. The engine, textures, 3d models, music, animations and other effects are all included inside that tiny file.

In the digital art subculture known as "the demoscene", this type of animation is referred to as "64K intro". The content is created with custom authoring tools, using various techniques including procedural generation and extreme compression. We will show how this can be done and how it affects the creation

- Julien Guertault, Director/Programmer
- Laurent Le Brun, Programmer
- Daniel Lindholm, Composer Ctrl-Alt-Test. France

TV Animation: "Land of the Lustrous" Approaching Color and Style for CG from Hand-drawn Concept Arts

G502 (5F. Glass Building)

Friday, 07 December | Special Screening 9:00-10:45, Session 11:00-12:45



"Land of the Lustrous" is a TV anime series that aired from October to December 2017. In order to establish the aesthetic the concept art was hand-drawn, becoming the base for exploring different styles in CG. Hand-drawn as well as graphical styles were skillfully interwoven into a realistic look made only possible through the use of CG. We will explain "concept art" from a hand-drawn perspective and "VFX art" from a CG perspective, for these can be considered the origin points of this series as they took on the challenge of achieving a nextgeneration visual style never before seen in the world of Japanese CG character

- Kensuke Yamamoto, VEX Art Director
- Yoichi Nishikawa, Concept Artist Orange, Japan

Behind the scenes of Solo - A Star Wars Story

G602 (6F, Glass Building) Friday, 07 December | 9:30-10:30





- Nigel Summer, Creative Director
- Atsushi Kojima, Lead Animator ILM Singapore, Singapore

Production Sessions

Incredible Environments: Building the World of Incredibles 2

G502 (5F, Glass Building) Friday, 07 December | 13:30-14:15



- Nathan Farris, Sets Supervisor
- Chris Burrows, Sets Shading Lead
 Pixar Animation Studios, USA

From a clifftop mansion to the gritty streets of New Urbem, the environments of Incredibles 2 spanned multiple cities and many forms of transportation. Pixar's Sets department was tasked with not only upgrading locations from the first film, but also creating multiple new dynamic urban environments, all while keeping the feel of the original. A procedural city system was built in City Engine, Houdini and Presto (Pixar's core pipeline software) that allowed for production models to be ingested and distributed in a neighborhood-based pattern and then output to a render-efficient point-instancer format. All of these buildings, vehicles and props, required a more efficient way of shading. Using Flow, Pixar's gpu-based path tracing shading tool, artists created USD-based libraries of physically plausible materials which could be assigned and re-used at modeling time. This allowed artists to quickly build cities at massive scales, with few colors tweaks in sequences and almost no paint work. Coordination with the Lighting department allowed models to come into Katana with light attach points and a structure that allows for script-based lighting setup. These techniques and many others allowed the Sets team to construct the huge world of Incredibles 2 in a short time frame.

Reinterpreting Memorable Characters in 'Incredibles 2'

G502 (5F, Glass Building)
Friday, 07 December | 14:30-16:15



- Salvatore Melluso, Character Technical Director
- Nancy Tsang, Character Technical Director
- Lou Hamou-Lhadj, Character Technical Director Pixar Animation Studios, USA

Everyone's favorite family of superheroes is back in "Incredibles 2" — but this time Helen (voice of Holly Hunter) is in the spotlight, leaving Bob (voice of Craig T. Nelson) at home with Violet (voice of Sarah Vowell) and Dash (voice of Huck Milner) to navigate the day-to-day heroics of "normal" life. It's a tough transition for everyone, made tougher by the fact that the family is still unaware of baby Jack-Jack's emerging superpowers. When a new villain hatches a brilliant and dangerous plot, the family and Frozone (voice of Samuel L. Jackson) must find a way to work together again—which is easier said than done, even when they're all Incredible.

- Jacob Speirs, Character Technical Director
- Kevin Singleton, Character Technical Director
- Trent Crow, Character Shading Technical Artist

VR Theater

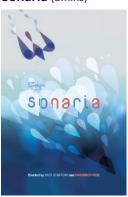
Hall E (B2F, E Block)
Wednesday, 05 December | 10:00-18:00 (8 Shows)
Thursday, 06 December | 10:00-18:00 (8 Shows)
Friday, 07 December | 10:00-16:00 (6 Shows)

Hop Step Sing! Nozokanaide Naked Heart (5mins)



directed by Hiroshi Chida Kodansha VR Lab., Japan

Sonaria (5mins)



directed by Scot Stafford & Chromosphere Chromosphere, USA

Shennong: Taste of Illusion (10mins)



directed by Li Mi Pints Studios, China

Tales of Wedding Rings VR (12mins)



directed by Kaei Sou SQUARE ENIX, Japan

VR Theater sponsored by











Registration area (1F, Glass Building)

Wednesday, 05 and Thursday, 06 December | 9:00-18:00

Friday, 07 December | 9:00-16:00

Production Gallery "Artists Behind the Scenes Exhibition" is an exhibition of works by artists involved in digital image production.

This exhibition includes work by sixteen artists active inside and outside Japan, from works by Japanese artists working in Hollywood, to miniature pieces actually used in films, to exhibitions

by concept artists who construct breathtaking visions. We hope that, through these works, you will see a side of production that normally remains out of view, building your interest in digital image production work.









Production Gallery sponsored by

















Production Gallery produced by





Kawaguchi's SAKE party & CG show at Siggraph Asia 2018 (BOF)

the Sorabako (Recruit Holdings Co.,Ltd)

41F, Grand Tokyo South Tower, 1-9-2, Marunouchi, Chiyoda-ku, Tokyo Tuesday, 04 December | 20:00-21:30

SIGGRAPH ASIA 2018 welcome all SIGGRAPH Asia 2018 attendees to attend Japan's local specialty "SAKE (Japanese rice wine)" Party! Supported by: GHELIA Inc. & ASAHI-SHUZO SAKE BREWING CO., LTD.

SIGGRAPH Asia CAF Party in Tokyo Production Party Marking the 3rd Night of SA2018

BFNOA Ginza

B3F, Ginza Wall Bldg., 6-13-16 Ginza, Chuo-ku, Tokyo Thursday, 06 December | 20:00-24:00

To celebrate SIGGRAPH ASIA 2018, more than 10,000 computer professionals gathering from all across the globe, a party presented by Japanese production studios will be held on 12/6(THU) from 8 pm. This party will take place as the official party of the Computer Animation Festival (CAF) of SA2018. Don't miss out on this opportunity to mix and mingle with computer professionals, educators and students from not only Japan but around the world!

Please join us to make this an extra exciting night for SIGGRAPH Asia. FREE to enter! Special guest appearances by the creative unit AC-BU and more!

Register from Peatix! https://siggraphasia-cafparty.peatix.com/

Presented by:

Anima/N-Design/ENGI/Optical Force/Orange/OLM Digital/SOLA DIGITAL ARTS/Kamikaze Douga/Sublimation/SAMURAI PICTURES/Sanzigen/Toei Animation/Polygon Pictures/Modeling Cafe/LIBZENT/wise

Sponsored by:

IMAGICA DIGITALSCAPE/D-STORM/Borndigital/CG-ARTS/Institute for Information Industry/Digi Space/ GEMHORN/Too/ FOUNDRY/ VFX-JAPAN

Co-presented by:

"Anime Technic Sessions Unlimited for Creators 2018"/CG-ARTS Human Resources Development Forum/Taipei ACM SIGGRAPH Chapter Reunion (a.k.a. Taiwan Night)





SIGGRAPH ASIA 2018 Tokyo Computer Animation Festival

wishes to thank to all contributors

SIGGRAPH Asia 2018 Computer Animation Festival sponsored by

