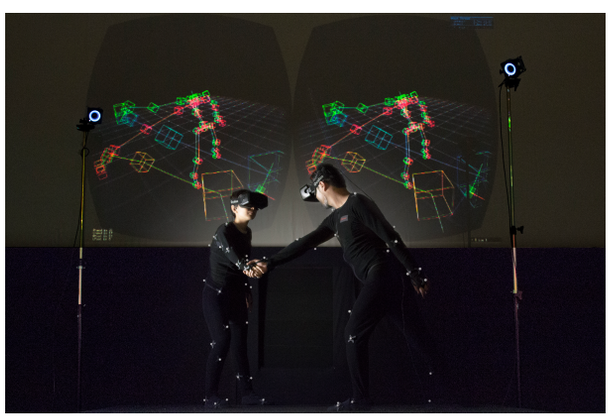
Yamaguchi Center for Arts and Media [YCAM] Event

"Perception Engineering" Kickoff Event —Connecting Bodies

2017.1.21 (sat) 13:00 - 20:00
Yamaguchi Center for Arts and Media [YCAM] Studio A and other locations

Technology to generate new dance develops into a project that stimulates the senses: A day to learn the latest research developments with your body!

Yamaguchi Center for Arts and Media [YCAM] has developed the R&D project "Reactor for Awareness in Motion (RAM)" since 2010 in order to develop technology for dance creation. This year, the project has taken a further step into non-dance fields and will incorporate the five senses we apply to understand the world around us. The new project is entitled "Perception Engineering" and studies the shift that occurs in our perception, body movement or our way of communicating when we experience interactive responses to our own body's movement in the form of moving images, sound and vibration. It is a joint research project with experts from a variety of fields.
We are pleased to announce a special event where people can learn about the current state of this research. The event includes conversation with YCAM staff and collaborators to hear their research experiences, and an installation and workshop where one can experience a portion of the research outcomes. A Networking Reception will take place after the event.



An experiment with Shunichi Kasahara (2016)

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Events

Joint Research Project #1
YCAM "Perception Engineering" x Shunichi Kasahara (Sony CSL) "Superception"

Presentation

"Visually generated Superception and Movement"

Superception, a research project led by Shunichi Kasahara, a Sony Computer Science Laboratories researcher, who is exploring a way to connect or alternate our individual perceptions and senses using technology. It was YCAM'S aim to verify the effect of the RAM system scientifically through this collaboration. Using the RAM system, one's movement can be modulated temporally and spatially in a virtual reality space. This research focuses on how these modulations alter one's sense of physicality, such as the lightness or heaviness of the body. The presentation includes an interactive installation.

Related Installation

RADICAL BODIES: Dance Dance in VR

2017.1.14 (Sat) – 1.21 (Sat) 11:00-17:00

* till 20:00 on 1.21

Let's dance in virtual reality space! Wearing a head mounted display and looking at an animated version of your body, maybe you'll start moving without even realizing it. Enjoy experiencing the results of our research.

Participants must be older than 13 years old
Free / No reservation required
Co-developed by Shunichi Kasahara (Sony CSL), YCAM InterLab
vvvv System Building: Yuki Hirano (vitte), Minoru Ito (Takram)
Special Thanks: Satoru Higa

Joint Research Project #2
YCAM "Perception Engineering" x Shinichiro Kumagaya (The University of Tokyo Research Center for Advanced Science and Technology) "Sufferers' First-person Study"

Presentation

"Visualization of Sense of Distance"

Shinichiro Kumagaya is a researcher with cerebral palsy who advocates for sufferers' first-person study. When several people converse, it is said that each speaker comes to understand their places through adjusting their personal space. It is also believed people with autistic spectrum disorders have different linguistic aspects from neurotypicals in communication such as inter-personal distance or rhythm of movement. However, studies haven't been able to clarify much about how it is actually different in everyday life. In this project, with "personal space" in mind, we will look into these differences, the causes for interpersonal misunderstanding and the possibility of a new style of communication. RAM allows us to visualize and make personal space tangible. The project explores what we might learn from this.

Related Workshop

Rediscovering Personal Space

2017.1.21 (Sat) 16:50-19:00

Inspired by joint research with Shinichiro Kumagaya, YCAM and Osamu Jareo, a choreographer and dancer, host a unique workshop. The distance from others that one feels comfortable is different from one person to another. What is another's personal space like? By experiencing various kinds of personal spaces, we will explore unique possibilities of communication. Participants are recommended to attend the presentation before workshop.

Participants must be older than 13 years old / Free / No experience required / Number of Participants: 15 people *Reservation required
Please come with clothes and shoes that are suitable for moving around.
Co-developed by YCAM InterLab, Osamu Jareo, Nariaki Iwatani (anno lab)
In Cooperation with BONUS

Profile

Shunichi Kasahara

Joined Sony Corporation in 2008. After working in user interface R&D and becoming a visiting researcher at MIT media lab in 2012, Kasahara joined Sony Computer Science Laboratories as a researcher in 2014. His field is "JackIn", a communication interface for people to link and access others and "Superception", a technology to link and alternate our perception and senses.

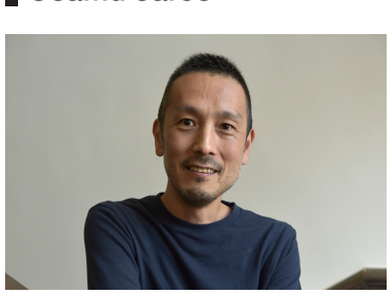
Asa Ito

Born in 1979. Associate professor at Tokyo Institute of Technology, Institute for Liberal Arts. Research specialty is in aesthetic and contemporary art. Ito aspired to becoming a biologist yet decided to transfer to liberal arts in her third year of university. Finished her course at The University of Tokyo, Graduate School of Humanities and Sociology and Faculty of Letters with enough credit to graduate in 2010. The author of "How Blind People See the World (Me no Mienai Hito wa Sekai wo Dou Miteiru noka)" [Kobunsha], "Body Theory of Blind Athlete (Meno Mienai Athlete no Shintai-ron)" [Ushio Publishing], "Valery's Philosophy of Art or Anatomy (Valery no Geijutsu Tetsugaku Aruiwa Shintai no Kaibou)" [Suiseisha] and more. She also collaborated with Kohei Kobayashi for his video performance work "T-I-M-E-M-A-C-H-I-N-E".

Shinichiro Kumagaya

Associate professor at The University of Tokyo Research Center for Advanced Science and Technology. Medical doctor. Born in Shunan, Yamaguchi in 1977. A case of birth asphyxia left him with cerebral palsy. Kumagaya requires the use of a wheelchair. After graduating from The University of Tokyo Faculty of Medicine, he worked at Chiba Nishi Hospital as a pediatrician and at Saitama Medical University Hospital as a pediatric cardiologist. After completing his Ph.D. at The University of Tokyo Graduate School of Medicine, he was appointed to be an associate professor at The University of Tokyo. The co-author of "Self Support for People with Developmental Disabilities (Hattatsu Shogai Tojisha Kenkyu)" [Igaku-Shoin], "How to Make Connection (Tsunagari no Saho)" [NHK Publishing], "Philosophy of Pain (Itami no Tetsugaku)" [Seidosha] and more.

Osamu Jareo



Formed a dance unit with Misako Terada in 1991, Jareo has focused on solo work in recent years. He not only performs in dance pieces, but also hosts workshops, works in film, and choreographs opera repertoire. He also created a dance piece with people with disabilities and elderly people. The author of "Slow Dance at Nursing Home: Like a Dance, Like a Nursing-care (Rojin Home de Umareta "Totsu Totsu Dance" – Dance no Youna, Kaigo no Youna)" [Shobunsha]. Part-time lecturer at Ritsumeikan University, Kobe College, Kyoto Seika University and Tenri Health Care University.

General Information

"Perception Engineering" Kickoff Event —Connecting Bodies

2017.1.21 (Sat) 13:00-20:00

Yamaguchi Center for Arts and Media [YCAM] StudioA

Free *Admission required for Networking Reception

Presented by Yamaguchi City Foundation for Cultural Promotion
In association with Yamaguchi City, Yamaguchi City Board of Education
Supported by the Agency for Cultural Affairs Government of Japan in the fiscal 2016
Co-developed with YCAM InterLab
Organized by Yamaguchi Center for Arts and Media [YCAM]

Schedule

13:00 Presentation "From RAM to Perception Engineering"
13:30 Presentation "Visually generated Superception and movement"
15:00 Break
15:20 Presentation "Visualization of Sense of Distance"
16:50 Workshop "Rediscovering Personal Space"
19:00 Networking Reception *Admission required

Reservation

To make a reservation, please send us an email (reserve@ycam.jp) with the items below or visit YCAM ticket information (1F).

+ Name of the event you wish to attend (Presentation / Workshop / Networking Reception)
+ Address and Name
+ Phone#
+ e-mail
+ Your interest regarding to this event etc.

*Admission required for Networking Reception
Adult: 2000yen / 25 and younger: 1500 yen including one drink
Please pay at the reception.

Related Exhibition

Installation

“RADICAL BODIES: Dance Dance in VR”

2017.1.14 (Sat) – 1.21 (Sat) 11:00-17:00
*till 20:00 on 1.21 Closed on 1.17 (Tue)
Yamaguchi Center for Arts and Media [YCAM] Foyer *Free

Let’s dance in virtual reality space! Wearing a head mounted display and looking at an animated version of your body, maybe you’ll start moving without even realizing it. Enjoy experiencing the results of our research.

RAM Archival Video Showing

2017.1.21 (Sat) 13:00-20:00

Yamaguchi Center for Arts and Media [YCAM] Studio A Lobby *Free

Interviews with collaborating artists and athletes for RAM, the original project from which “Perception Engineering” evolved, and other archival videos will be on display.