

# S-face

SFC makes the future through researches

Special Issue

## SFC Open Research Forum 2016

Keio Research Institute at SFC



2017.Jan ISSUE  
Japanese Color: KONJOU

# Taking a glimpse into the evolution and future of SFC as it welcomes a new “first year”

At the SFC Open Research Forum 2016 held over 2 days on November 18 (Friday) and 19 (Saturday), there were exhibitions and presentations of the research work that SFC is engaged in day and night, workshops that offer an experience of this research work, and talk sessions with speakers and debaters from sectors such as the business and government circles.

This year, which marks the 26th year since the founding of the campus, also signifies a new “first year” coming after its first 25 years of establishment. Here, we take a glimpse into the evolution and future of SFC.

## Hiroya Tanaka Laboratory

Connecting nursing and agriculture with fabrication



**Yoshihiro Asano**  
1st-year Student of Master's Program, Graduate School of Media and Governance

In recent years, digital fabrication such as 3D printers and laser cutters have been drawing much attention. Our laboratory is working on drawing links between the objects made using such devices with society. At the ORF, we present items made with a 3D printer, such as the “gargling basin,” which is used in healthcare.

## Omae Lab

Toward a society where any one can travel anywhere at any time



**Syuya Sato**  
2nd-year Student of Master's Program, Graduate School of Media and Governance

Dynamic research and development is being carried out toward the practical application of self-driving technology for cars. Our laboratory has been engaged in research on areas such as on-demand self-driving, platooning, and remote control. Here, we featured some of our most recent work, including a lane-keeping assist control system that are adaptable to individuals, for use on ordinary roads, as well as last-one-mile self-driving system.

## Laboratory of Prof. Atsushi Okuda



Our laboratory undertakes comprehensive and practical research in cooperation with research hubs from the Arabic and Islamic world. We have put out many projects including the Ahlan wa Sahlan Program (ASP), which is a 15-year-old program for inviting Arabic students to Japan, Development and enforcement of the Muslim service personnel training program in collaboration with Kanagawa Prefecture, the Assalam Action project undertaken in collaboration with the Research Institute of Innovation and Industry, research on Islam and global governance, and support for the reconstruction of Aleppo.



**Atsushi Okuda**  
Professor, Faculty of Policy Management

Elucidating the physical foundations of human consciousness



**Yutaro Koyama**  
3rd-year Student, Faculty of Environment and Information Studies

Our laboratory conducts fundamental research on neuroscience from the perspective of measuring and analyzing brain information. We also aim to apply this research to the fields of brain information communications, medicine and health, and media. For this event, we present a poster exhibition of our research work, and carry out demonstrations using an electroencephalograph (EEG).

## Premium Session Tsuruoka Science Park started – The small town in Yamagata Prefecture is now receiving world's attention



The Institute for Advanced Bioscience (IAB), which is located in the Tsuruoka Town Campus and has various cutting-edge biotechnologies, has greatly contributed to establish several brand-new venture companies. How was this “miracle of Tsuruoka” accomplished? In this session, Prof. Masaru Tomita, the Director General of the IAB, together with key persons from leading companies in Japan, discuss this success story occurred in a small town.



Chair of Planning Committee  
**Jin Nakazawa**

## The research achievements of SFC bring forth the “right” future

ORF 2016 is the 21st installment of the event, and the theme for this year is “KAERU.” This word carries several meanings—“returning” to the spirit that we started with on the 26th birthday of SFC, as we step into a new “first year” after a quarter of a century since its founding; the “hatching” of new ideas and knowledge at SFC; and “giving back” of this knowledge to society. It also signifies our anticipation and hope of “looking back,” 100 years later, on ORF 2016 where the prototypes of the latest technologies of the current times were presented.

This culmination of the work undertaken by SFC takes place once a year, and every students have put their best effort into ORF 2016. The booths have further enhanced their individual character this year, and put in various creative efforts to communicate their ideas more easily to visitors. Another feature of the event this year is the large number of exhibits that make use of VR (Virtual Reality) and digital fabrication. If the research achievements produced through practical study at SFC, which focuses on conducting research that accurately captures and solves problems that are present in reality, can guide society toward the right direction, then ORF 2016 could be described as an event that brings forth the “right” future.

### Profile

Associate Professor, Faculty of Environment and Information Studies, Keio University. Completed his doctoral course at the Graduate School of Media and Governance at the same university. One of his life works is to collect the infinite information that is buried in the city and invisible to our eyes. Specializes in ubiquitous mobile computing and sensing systems.

## Ikeda-lab



Our laboratory aims to achieve the transition from the industrial building technology that had driven building in the 20th century, toward digital construction that is based on information technology. At the ORF, we present the “digital wood 2.0 – Smart Wooden Building Block,” which is showing a construction process of the future that combines IoT building materials with construction work support provided by AR (Augmented Reality).

Liberating architectural design!



**Yuichi Abe**  
Project Assistant Professor, Graduate School of Media and Governance

Considering architecture using information technology



**Yasushi Ikeda**  
Professor, Graduate School of Media and Governance

ORF2016 Website: <http://orf.sfc.keio.ac.jp/2016/>

## Please visit S-face website for details!

There are more articles and video of ORF 2016

S-face

Search



Keio Research Institute at SFC  
Office of Research Development and Sponsored Projects,  
Shonan Fujisawa Campus, Keio University  
5322 Endo, Fujisawa, Kanagawa, 252-0882, Japan  
Tel: +81- (0) 466-49-3436  
E-mail: info-kri@sfc.keio.ac.jp