# NYCU-TU Joint Workshop

### Schedule of 5th June 2023

Venue: Sakura Hall 2F, Katahira Campus

13:30	_	
	Joint Workshop (Opening and I	Plenary Session), Sakura Hall AB
14:25		
14:40	Joint Workshop 1, Sakura Hall AB	Joint Workshop 2, Sakura Hall C
	(Social and EE)	(Medical / Dental Gr.)
	Chairs: Prof. S. Samuakwa	Chairs: Prof. M. Hsu and G. Hong
17:30	and K. Endo	

# Opening and Plenary Session (Sakura Hall AB)

### Sakura Hall AB

Chair: Prof. Kaoru Maruta, Director, Institute of Fluid Science, Tohoku University

13:30-13:40	Opening Prof. Motoko Kotani, Executive Vice President, Tohoku University & Prof. Jenn-Hwan Tarng, Senior Vice President, National Yang Ming Chiao Tung University
13:40-14:05	Plenary: Overview of NYCU <u>Prof. Jenn-Hwan Tarng</u> , Senior Vice President, National Yang Ming Chiao Tung University
14:05-14:25	Plenary: Overview Picture of Tohoku University Mr. Takuro Ueda, Executive Vice President, Tohoku University

### Joint Workshop 1 (Sakura Hall AB) "Session for Social Science and Electrical Engineering"

### Sakura Hall AB

Moderator: Prof. Seiji SAMUKAWA; NYCU, College of Electrical and Computer Engineering Prof. Kazuhiko ENDO; TU, Institute of Fluid Science

Keynote Sessio Co-Creation	n:
14:40-15:05	Taiwan (TECH) Startup Ecosystem: for example from universities
	Prof. Hank Huang (Department of Electronics and Electrical
	Engineering, National Yang Ming Chiao Tung University)
15:05-15:30	Industry-university collaboration on microsystem technology and

human resource development at open-access facility Prof. Kentaro Totsu (R&D Center of Excellence for Integrated Microsystems, Tohoku University)

Social Science 15:30-15:55	Humanities and Social Sciences at NYCU  Prof. Chien Chou (Senior Vice President, National Yang Ming Chiao Tung University)
15:55-16:20	Tackling Local and Global Challenges in Disaster Risk Reduction

Prof. Yuichi Ono (International Research Institute of Disaster Science, Tohoku University)

### Semiconductor

16:30-16:55	Atomic Layer Technology and Its Application for Advanced
	Heterogeneous Integrated Nano-device
	Prof. Seiji Samukawa (College of Electrical and Computer
	Engineering, National Yang Ming Chiao Tung University)
16:55-17:20	Development of 3D-Stacked Artificial Retina Chip with 3DIC/TSV

Technology Prof. Tetsu Tanaka (Graduate School of Biomedical Engineering, Tohoku University)

## Joint Workshop 2 (Sakura Hall C) "Session for DX in Healthcare and Educational setting"

Cosponsored by Graduate School of Medicine, Tohoku University

### Sakura Hall C

Moderator: Prof. Allen Ming-Lun HSU; NYCU, College of Dentistry Prof. Guang HONG; TU, Graduate School of Dentistry

### Keynote Session:

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14:40-15:25 <online></online>	Overview of biomedical researches in NYCU <u>Prof. Muh-Hwa Yang</u> (Institute of Clinical Medicine, National Yang  Ming Chiao Tung University)
15:05-15:25	Task shift from human to Dx for aging society  Prof. Masanori Yamauchi, Eiko Onishi (Department of Anesthesiology and Perioperative Medicine, Tohoku University School of Medicine)
15:25-15:40	Pragmatic collaboration leads to new horizons in dental education Prof. Allen Ming-Lun HSU (College of Dentistry, National Yang Ming Chiao Tung University)
15:40-15:55	Digital transformation in healthcare and educational setting <a href="Prof. Guang Hong">Prof. Guang Hong</a> , Hiroshi Egusa, Nobuhiro Yoda, Ken Osaka (Tohoku University Graduate School of Dentistry)
15:55-16:10	Coffee Break

Keynote and In	vited Lecture:	
16:10-16:22	Digital Transformation in Mechanical Ventilation	
	Prof. Kazuhiro Takahashi, Hiroaki Toyama (Department of	
	Anesthesiology and Perioperative Medicine, Tohoku University	
	School of Medicine)	
16:22-16:34	Cancer Genomics on the Cloud-An Interdisciplinary Perspective <u>Dr. Yu-Cheng Lin</u> (School of Dentistry, National Yang Ming Chiao Tung University)	
16:34-16:46	Introduction of Tohoku University's Medical Simulation Center and Academia-Industry Collaboration  Dr. Yutaro Arata, Yuta Yokokawa, Eiko Onishi, Masakazu Kobayashi,	
	Masanori Yamauchi (Tohoku University Clinical Skills Laboratory)	

16:46-17:03	AI assisted precisional treatments of temporomandibular disorders (Keynote Lecture)  Prof. Wen-Liang Lo (College of Dentistry, National Yang Ming Chiao Tung University)
17:03-17:15	3D blood flow field estimation network based on vascular morphology information <u>Dr. Hitomi Anzai</u> (Institute of Fluid Science, Tohoku University)
17:15-17:32	An overview of NYCU Brain Research Center (Keynote Lecture)  Prof. Cheng-Chang Lien (College of Life Sciences, National Yang Ming Chiao Tung University)