



Taiwan-Japan Joint Mini Workshop on Information Photonics (WIP)



CHIBA UNIVERSITY

(April 27, 2023)

Chair: Prof. Chau-Jern Cheng, NTNU, Taiwan.

Thursday, April 27, 2023

Venue: Room 201, 2F, Conference Center building, NTNU ([Gongguan Campus](#))

Time	Reception & Introduction		
Time	Title	Speaker	Presider
10:00–10:15	Reception & Introduction		
10:15–11:00	Invited Tutorial Talk	Prof. Tomoyoshi Shimobaba	Prof. Chau-Jern Cheng
11:00–11:20	IOP-Lab technical introduction	Chung-Hsuan Huang	
11:20–11:40	Deep learning-assisted three- dimensional segmentation of SH-SY5Y cell morphology with holographic tomography	Han-Wen Chi	
11:40–13:20	Lunch (Meal box)		
Time	Title	Speaker	Presider
13:20–13:40	Reducing the computational complexity of high-resolution hologram calculations using polynomial approximation	Harutaka Shiomi	Prof. Tomoyoshi Shimobaba
13:40–14:00	Generating complex holograms from real part information using deep learning	Takuya Hirahara	
14:00–14:20	Coffee/Tea break		
Time	Title	Speaker	Presider
14:20–15:00	Lab Tour @ System demonstration	Chung-Hsuan Huang	Prof. Chau-Jern Cheng
15:00–17:00	Discussion of joint work - Next Visiting & Exchange Plan in summer Proposal topic of NSCT-JST joint funding (Optional discussion)	Prof. Chau-Jern Cheng Prof. Tomoyoshi Shimobaba	Prof. Chau-Jern Cheng Prof. Tomoyoshi Shimobaba
18:00–20:00	Joint Groups Dinner		

