

# When AI Meets Human Science:

The 4<sup>th</sup> Tohoku – NTU Symposium on Interdisciplinary AI and Human Studies

Time: March 12-13, 2021 Location: On Zoom

Registration required. <https://forms.gle/YoG6ocYkEqd3afjr9>

## Friday, March 12

Time	Speaker	Topic
09:25 - 09:30 (TW) 10:25 - 10:30 (JP)		<b>Opening Remark</b>
<b>Session 1 (Chair: Yoshihiko Horio)</b>		
	<b>Takumi Ito</b>	Langsmith: An Interactive Academic Text Revision System
09:30 - 10:30 (TW) 10:30 - 11:30 (JP)	<b>Tai-Li Chou</b>	Neural Substrates of Communication Deficits in Autism
	<b>Sachiko Kiyama</b>	How Poems Bring Joy? Some Neural Changes to the Japanese Fixed Verses
	<b>Hsiu-Ping Yueh</b>	Reshaping Learning Experience with Robot
10:40 - 11:40 (TW) 11:40 - 12:40 (JP)		<b>Discussion Session 1</b>
<b>Lunch Break</b>		
13:00 - 13:55 (TW) 14:00 - 14:55 (JP)	<b>Masayuki Ohzeki</b>	Keynote Speech: Quantum Annealing and its Application to Real Industry
<b>Session 2 (Chair: Jun Saiki)</b>		
	<b>Po-Jang Hsieh</b>	The Scientific Study of Human Consciousness
14:00 - 15:00 (TW) 15:00 - 16:00 (JP)	<b>Sae Kaneko</b>	Temporal Factor of Spatial Context for Visual Perception
	<b>Ryo Teraoka</b>	Is the Spatial Shape of Auditory Selective Attention Constant in the Horizontal Plane?
	<b>Seiji Kumagai</b>	Using Traditional Wisdom with AI (Buddhabot) to Establish a "Psyche Navigation System"
<b>Session 3 (Chair: Li-Chen Fu)</b>		
	<b>Yoshihiro Sugaya</b>	Indoor Navigation using an Illustrated Non-digital Map on Information Board
15:00 - 16:00 (TW) 16:00 - 17:00 (JP)	<b>Shih-Fang Chen</b>	Intelligent Tea Management: What AI Can Help
	<b>Satoshi Moriya</b>	Modeling of Cultured Neuronal Networks for Analog Hardware Implementation
	<b>Shang-Tse Chen</b>	Robust Physical Adversarial Attack on Object Detectors
16:10 - 17:10 (TW) 17:10 - 18:10 (JP)		<b>Discussion Session 2 &amp; 3</b>

## Saturday, March 13

Time	Speaker	Topic
<b>Case Western Reserve University and Tohoku University Special Session</b>		
	<b>Mistuyuki Nakao</b>	Opening Remark
	<b>Yinghui Wu</b>	Knowledge-based Event Analysis in Cyber-Physical Data Streams
08:00 - 11:00 (TW) 09:00 - 12:00 (JP)	<b>Mehmet Koyutürk</b>	Robust Inference of Kinase Activity Using Functional Networks
	<b>Roger H. French</b>	Spatiotemporal Graph Neural Network for Performance Prediction of Photovoltaic Power Systems
	<b>Masayoshi Adachi</b>	Crystal growth of AIN from Ni-AI solution
	<b>Samy B. Mohammad</b>	Pedagogical Methods of Online Practical-based Learning in Data Science
	<b>Nei Kato</b>	Ten Challenges in Advancing Machine Learning Technologies towards 6G
<b>Lunch Break</b>		
<b>Session 4 (Chair: Yoshifumi Kitamura)</b>		
	<b>Fu-Cheng Wang</b>	Recognition of Stroke Gaits by Deep Neural Networks
13:00 - 14:00 (TW) 14:00 - 15:00 (JP)	<b>Kazuyuki Fujita</b>	Adaptive Workspaces: Physically Interacting with Spatial Surfaces
	<b>Ruey-Feng Chang</b>	Breast Ultrasound Computer Aided Diagnosis Using Deep Learning
	<b>Yoshiyuki Ueda</b>	Experience and Environmental Matters in Human Visual Cognition
<b>Session 5 (Chair: Keng-Chen Liang)</b>		
	<b>Hirokazu Hatta</b>	Implicit Attitudes toward Dishonesty as a Predictor of Self-serving Dishonesty
14:00 - 15:00 (TW) 15:00 - 16:00 (JP)	<b>Ching-Mei Chu</b>	Building Emotion-centered AI: How Humanistic Sociologists Can Help Break the Bottleneck of AI's "Emotional Intelligence"
	<b>Pin-Hao Chen</b>	Towards a Neurometric-based Construct Validity of Trust
	<b>Yueh-Hsuan Weng</b>	When ELSI meets Design: On Design-centered AI Governance
15:00 - 16:00 (TW) 16:00 - 17:00 (JP)		<b>Discussion Session 2 &amp; 3</b>
16:00 - 16:55 (TW) 17:00 - 17:55 (JP)	<b>Wendy Cho</b>	Keynote Speech: Human-centered Redistricting Automation in the Age of AI
16:55 - 17:00 (TW) 17:55 - 18:00 (JP)		<b>Closing Remark</b>

