



2018 IEEE EMBS International Summer School

August 13-17, 2018 Beijing, China



Aug 12(Sun)	9:00-17:00	Registration	Room C235, Medical Science Building, Tsinghua University
Day 1 (Medical Science Building Room B323, Tsinghua University)			
	9:00-9:30	Opening and Orientation	
	9:30-10:30	Lecture 1 Mind Reading Technology Overview	Prof. Bo Hong Tsinghua University
	10:30-11:00	Seminar 1 Brain-Computer Interface Olympics	Prof. Xiaorong Gao Tsinghua University
	11:00-12:00	EEG BCI Demo (3 groups in B323/B321/C301)	
	12:15-13:30	<i>Lunch Time</i>	
Aug 13 (Mon)	13:30-15:00	Lecture 2 Emerging technologies for brain imaging and stimulation	Prof. Shanbao Tong Shanghai Jiaotong University
	15:00-15:10	Group Photo (2 nd Floor Atrium)	
	15:10-15:30	<i>Coffee Break</i>	
	15:30-17:00	Lecture 3 Advanced Electrophysiological Technologies	Dr. Kian Torab Blackrock Microsystems
	17:00-18:00	Campus Tour	
	18:00-19:30	<i>Welcome Dinner</i>	
Day 2 (Medical Science Building Room B323)			
	9:00-10:30	Lecture 4 EEG-based mind reading methods	Prof. Yijun Wang Chinese Academy of Sciences
	10:30-11:00	<i>Coffee break</i>	
Aug 14 (Tue)	11:00-12:00	Hands on EEG BCI data analysis	Prof. Yijun Wang
	12:00-13:30	<i>Lunch Time</i>	
	13:30-15:00	Student Oral Presentation	
	15:00-16:00	Student Poster Session with <i>Coffee Break</i>	
Day 3 (Medical Science Building, Room B323)			
	9:00-10:30	Lecture 5 ECoG-Based Neurophysiology	Prof. Gerwin Schalk University at Albany-SUNY
	10:30-11:00	<i>Coffee Break with Q&A</i>	
	11:00-12:00	Seminar 2 ECoG-based Engineering Advances	Prof. Gerwin Schalk
	12:00-13:30	<i>Lunch Time</i>	
Aug 15 (Wed)	13:30-14:30	Seminar 3 Intracranial Recordings in the Human Brain	Prof. Josef Parvizi Stanford University
	14:30-15:00	<i>Coffee break</i>	
	15:00-16:00	Seminar 4 Cracking the neural code of language	Prof. Bo Hong Tsinghua University
Day 4 (Medical Science Building, Room B323)			
	9:00-10:30	Lecture 6 fNIRS-based mind reading	Prof. Han-Jeong Hwang Kumoh National Institute of Technology
	10:30-10:40	<i>Coffee Break</i>	
Aug 16 (Thu)	10:40-12:00	Lecture 7 EEG-based brain state recognition	Prof. Dan Zhang Tsinghua University
	12:00-13:30	<i>Lunch Time</i>	
	14:00-17:00	Visit to Zhongguancun Science & Technology Park	Tomorrow Advancing Life
Day 5 (H+Lab, Tsinghua Science Park)			
Aug 17 (Fri)	9:00-10:00	Lecture 8: Introduction of fMRI	Prof. Pei Sun Tsinghua University
	10:00-10:30	<i>Coffee break</i>	

10:30-12:00	Lecture 9: Deep image decoding from human fMRI	Prof. Yukiyasu Kamitani Kyoto University
<i>12:00-13:30</i>	<i>Lunch Time</i>	
13:30-14:30	Seminar 5: Inferring neural coding properties using inverted-encoding models of population response	Prof. Justin Gardner Stanford University
14:30-15:30	Panel Discussion – Ethics of Mind Reading	Yukiyasu Kamitani, Justin Gardner & Pei Sun
15:30-16:00	Closing Summary	
