

Program Overview

DAY	TOPIC
24 TH AUG	REGISTRATION AND OPENING CEREMONY
25 TH AUG	NEUROMORPHIC DEVICES AND SYSTEMS
26 TH AUG	NEUROMORPHIC SENSORY SYSTEMS
27 TH AUG	NEUROPHYSIOLOGICAL MODELS
28 TH AUG	BRAINSTORMING SESSIONS
29 TH AUG	NEUROINFORMATICS
30 TH AUG	BRAIN-MACHINE INTERFACE AND NEURAL PROSTHESES
31 ST AUG	COGNITIVE SCIENCE AND REHABILITATION

Program Schedule

	24 AUG (MON.)	25 AUG (TUE.)	26 AUG (WED.)	27 AUG (THU.)	29 AUG (SAT.)	30 AUG (SUN.)	31 AUG (MON.)
9:00 10:00		Prof. Shih-Chii Liu (ETH, Switzerland)	Prof. Jonathan Tapson (UWS, Australia) Order from chaos: engineered systems based on stochastic processes	Dr. Hari Subramanian (UQ, Australia) Neuromodulation of the midbrain periaqueductal gray: Opportunities and Challenges	Prof. Yagi Tetsuya (Osaka, Japan) A neuromorphic retina model and its applications in physiology and engineering	Prof. Leanne Chan (CUH, Hong Kong) Retinal Prostheses	Prof. Tong Boon Tang (UTP, Malaysia) Introduction to function Near Infrared Spectroscopy and its applications
		Coffee break					
10:30 11:30		Prof. Arindam Basu (NTU, Singapore) How can Dendritic Computation be useful in Neuromorphic Systems?	Prof. Hiro Okuno (Osaka, Japan) A wearable phosphene vision simulator for cortical visual prosthesis	Prof. Jeehyun Kwag (KU, Korea) Computational Models and Applications of Grid Cells and Place Cells	Dr. Garrick Orchard (NUS, Singapore) Spike-based Visual Processing	Prof. Guoxing Wang (Shanghai Jiao Tong University, China)	Prof. Lee Wei Lim (Sunway University, Malaysia) Deep Brain Stimulation of the Prefrontal Cortex: from Depression to Memory Enhancement
12:00 13:30		Lunch					Closing Remarks
13:30 14:20	Registration & Opening Ceremony	Prof. Shuenn-Yuh Lee (NCKU, Taiwan) Low Power Wireless ECG Acquisition and Cardiac Stimulation SOC for Body Sensor Networks	Prof. Chung-Yu Wu (NCTU, Taiwan) Circuit and System Design in Implantable Closed-Loop Neuro-Prosthetic Systems for Epilepsy	Prof. Yen-Chung Chang (NTHU, Taiwan)	Prof. Chung-Chuan Lo (NTHU, Taiwan)	Project Presentation	
14:20 15:10		Discussion Hsin Chen Sheng-Yu Peng	Discussion Kea-Tiong Tang Hiro Okuno	Discussion Yen-Chung Chang Shih-Rung Yeh	Discussion Chung-Chuan Lo Yi-Wen Liu		
15:10 19:00		Hands-On Projects					
21:00		Dinner					

***AUG. 28TH IS THE BRAINSTORMING DAY**