2019 International Conference on Brain Informatics

(BI 2019)

Program at a Glance

December 13-15, 2019

International Academic Exchange Center of Hainan University

Haikou, Hainan, China

http://wi-consortium.org/conferences/bi2019

Program at a Glance

Workshop/Oral Presentation Day

December 13										
Room	3F Hexie Room （和谐厅）	3F Heqian Room （和谦厅）	3F Hexun Room （和逊厅）	3F Heyi Room （和怡厅）	3F Hebian Room （和辨厅）	4F Multi-Function Conference Room （多功能会议室）	4F Meeting Room I （1 号办公室）	4F Meeting Room II （2 号办公室）	4F Meeting Room III （3 号办公室）	4F Boardroom （董事会议室）
14:30-16:00	International Workshop on Brain Health Big Data and Brain-Machine Intelligence in the Four Ps Medicine of 5G Era **BBD-BMI**	Workshop on Multicenter MRI: How Different Could You be from Me **WMCM**	Special Session on Learnable Representation and Analytics of Neuroimaging **LRAN**	Special Session on Brain Imaging Studies of Young Minds **BISYM**	International Workshop on Cyborg Intelligence **WCI**	International Workshop on Computational Neuroaesthetics **WCN**	The 1st International Workshop on Computational Brain Image Analysis and Genomics **CBIAG**	Special Session on Neurophysiologic-al Signal and Information Processing for Healthcare Engineering **NSIPHE** **Industry Workshop**	Special Session on Imaging Brain Networks in Psychiatric Disorders **IBNPD**	Brain-Machine Intelligence and Brain-Inspired Computing
16:00-16:20 Coffee Break										
16:20-18:00										

December 14 (Main Conference Day)	
Room: 3F Grand Ballroom	
9:00 - 9:30	**Opening (Chair:** *Ning Zhong + Pepper Robot***)**
9:30 - 10:10	**Keynote Speech (Chair:** *Qingming Luo***):** The Revolution of Personalized Medicine: Are We Going to Cure all Diseases and at What Price? *Aaron Ciechanover, The Technion – Israel Institute of Technology, Israel*
10:10-10:50	**Keynote Speech (Chair:** *Hanchuan Peng***):** The Relationship between Cognition and Computation *Lin Chen, Institute of Biophysics, Chinese Academy of Sciences, China*
10:50-11:30	**Keynote Speech (Chair:** *Guoyin Wang***):** High-speed 3D Fluorescence Microscopy with Digital Adaptive Optics *Qionghai Dai, Tsinghua University, China*
11:30-13:30	**Lunch Meeting with Lunch Box** **Panel Discussion** Interdisciplinary Study and Industrial Innovation of Brain Science meets Artificial Intelligence (12:00-13:30) **Panel Chairs** *Ning Zhong, Maebashi Institute of Technology, Japan and Beijing University of Technology, China* *Hanchuan Peng, SEU-ALLEN Joint Center, Institute for Brain and Intelligence, China* **Panelists** **From Brain Science Background:** *Michael Fox, Harvard Medical School, USA* *Vinod Goel, York University, Canada* *Guoming Luan, Capital Medical University Sanbo Brain Hospital, China* *Xinguang Yu, Chinese PLA General Hospital, China* **From AI Background:** *Yike Guo, Imperial College London, UK* *Yong Shi, Chinese Academy of Sciences, China* *Huajin Tang, Zhejiang University, China* *Feng Wu, Chinese University of Science and Technology, China*
13:30-14:00	**Feature Talk (Chair:** *Vinod Goel***):** Cell Type Classification and Circuit Mapping in the Mouse Brain *Hongkui Zeng, Allen Institute for Brain Science, USA*
14:00-14:30	**Feature Talk (Chair:** *Vinod Goel***):** Decoding Neuropsychiatric Symptoms using the Human Brain Connectome *Michael Fox, Harvard Medical School and Massachusetts General Hospital, USA*
14:30-15:00	**Feature Talk (Chair:** *Vinod Goel***):** Subject-level Functional Neuroimaging for Personalized Medicine *Hesheng Liu, Harvard Medical School and Massachusetts General Hospital, USA*
15:00-15:30	**Industry Invited Talk (Chair:** *Vinod Goel***):** Research and Application of Deep Learning Technology in Medical Imaging *Jiashi Feng, Chief Scientist of BioMind, Head of NUS Learning and Vision Lab, Singapore*
15:30-16:00	**Coffee Break**
16:00-16:30	**Feature Talk (Chair:** *Peipeng Liang***):** The Human Brainnetome Atlas and Its Applications in Understanding of Brain Functions and Disorders *Tianzi Jiang, Institute of Automation, Chinese Academy of Sciences, China*
16:30-17:00	**Feature Talk (Chair:** *Peipeng Liang***):** The Brain Basis for Processing the "Novelty" and "Appropriateness" Features in Creativity *Jing Luo, Capital Normal University, China*
17:00-17:30	**Feature Talk (Chair:** *Peipeng Liang***):** Developmental Connectomics from Infancy through Early Childhood *Yong He, Beijing Normal University, China*
18:00-20:00	**Banquet** (The Best Paper Award Ceremony, Introduction of Brain Informatics 2020 in Padova Italy)

12 月 14 日 主题报告、特邀报告、尖峰对话专场（Main Conference Day）	
会场：大宴会厅	
9:00-9:30	**大会开幕式（主持人：**钟宁+ Pepper 机器人）
9:30-10:10	**大会主题报告（主持人：**骆清铭） 报告题目：The Revolution of Personalized Medicine: Are We Going to Cure all Diseases and at What Price? 报告人：Aaron Ciechanover, 诺贝尔化学奖、中国科学院外籍院士、以色列理工学院教授
10:10-10:50	**大会主题报告（主持人：**彭汉川） 报告题目：The Relationship between Cognition and Computation 报告人：陈霖, 中国科学院院士、中国认知科学学会理事长、中国科学院生物物理研究所教授
10:50-11:30	**大会主题报告（主持人：**王国胤） 报告题目：High-speed 3D Fluorescence Microscopy with Digital Adaptive Optics 报告人：戴琼海, 中国工程院院士、中国人工智能学会理事长、清华大学脑与认知科学研究院院长
11:30-13:30	**午餐会 (会场提供盒饭)** **尖峰对话：**脑科学与人工智能的交叉研究与产业创新 (12:00-13:30) **主持人** 钟宁，日本前桥工科大学、北京工业大学 彭汉川，东南大学脑科学与智能技术研究院、东大-艾伦联合研究中心 **尖峰对话嘉宾** **脑科学背景：**Michael Fox，美国哈佛大学医学院 Vinod Goel，加拿大约克大学 栾国明，首都医科大学三博脑科医院 余新光，中国人民解放军总医院 **人工智能背景：**郭毅可，英国帝国理工学院 石勇，中国科学院 唐华锦，浙江大学 吴枫，中国科学技术大学
13:30-14:00	**特邀报告（主持人：**Vinod Goel） 报告题目：Cell Type Classification and Circuit Mapping in the Mouse Brain 报告人：曾红葵, 美国艾伦脑科学研究所执行官
14:00-14:30	**特邀报告（主持人：**Vinod Goel） 报告题目：Decoding Neuropsychiatric Symptoms using the Human Brain Connectome 报告人：Michael Fox, 美国哈佛大学医学院麻省总院脑网络成像和调控实验室主任
14:30-15:00	**特邀报告（主持人：**Vinod Goel） 报告题目：Subject-level Functional Neuroimaging for Personalized Medicine 报告人：刘河生, 美国哈佛大学医学院麻省总院马蒂诺生物医学成像中心个体差异实验室主任
15:00-15:30	**工业界特邀报告（主持人：**Vinod Goel） 报告题目：Research and Application of Deep Learning Technology in Medical Imaging 报告人：冯佳时, BioMind 首席科学家、新加坡国立大学机器学习与视觉实验室主任
15:30-16:00	**茶歇**
16:00-16:30	**特邀报告（主持人：**梁佩鹏） 报告题目：The Human Brainnetome Atlas and Its Applications in Understanding of Brain Functions and Disorders 报告人：蒋田仔, 欧洲科学院外籍院士、脑网络组北京市重点实验室主任、中国科学院自动化研究所教授
16:30-17:00	**特邀报告（主持人：**梁佩鹏） 报告题目：The Brain Basis for Processing the "Novelty" and "Appropriateness" Features in Creativity 报告人：罗劲，中国心理学会秘书长、学习与认知北京市重点实验室主任、首都师范大学教授
17:00-17:30	**特邀报告（主持人：**梁佩鹏） 报告题目：Developmental Connectomics from Infancy through Early Childhood 报告人：贺永, 认知神经科学与学习国家重点实验室副主任、神经影像大数据与人脑连接组学北京市重点实验室主任、北京师范大学教授
18:00-20:00	**晚宴（最佳论文颁奖仪式，意大利帕多瓦大学 2020 脑信息学国际会议宣传）**

Workshop/Oral Presentation Day

December 15										
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9:00-10:20	The 3rd Annual Workshop on Novel Methods of the Brain Imaging in the Clinical and Preclinical Neuroscience **NMBICPN**	Special Session on Algorithm and Chips for Computational Brain Science and Clinical Applications **ACCBSCA**	The 2nd International Workshop on Cognitive Neuroscience of Thinking and Reasoning **CNTR**	International Workshop on Neuroscience and Brain Rehabilitation **NBR**	Special Session on Interactive Cognition and Self-driving **ICS**	Special Session on Computational Social Analysis for Mental Health **CSAMH**	Human Information Processing Systems	Cognitive and Computational Foundations of Brain Science	Brain Big Data Analytics, Curation and Management	Informatics Paradigms for Brain and Mental Health Research
10:20-10:40 Coffee Break										
10:40-12:00										