

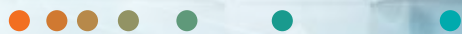
AI in medical imaging – Beyond imaging

IX Imaging Summit 2019

國際神經影像高峰會
暨 巨量醫學影像人工智慧國際研討會



慶祝臺北醫學大學建校 60 周年



Main theme AI in medical imaging – Beyond imaging

Date Oct. 5th (Saturday) 2019

Venue 16F International Conference Hall, Comprehensive Medical Building (Rear Building),
Taipei Medical University
臺北醫學大學醫學綜合大樓後棟16樓 國際會議廳

Agenda

09:00-09:30	Registration
09:30-09:35	Opening
	Speaker <i>Prof. Chien-Huang Lin</i> , President of Taipei Medical University
09:35-09:40	Welcome
	Speaker <i>Prof. Wing P. Chan</i> , President of The Radiological Society of R.O.C
09:40-09:45	Welcome
	Speaker <i>Prof. Wan-Yuo Guo</i> , Vice President / President-elect of The World Federation of Neuroradiological Societies
Keynote Speech	
09:45-10:20	AI applied to radiomics
	Speaker <i>Prof. Christopher T. Whitlow (MD., Ph.D., USA)</i> I. Meschan Distinguished Professor of Radiology with Tenure Chief of Neuroradiology, Department of Radiology Vice Chair of Imaging Informatics, Department of Radiology Director, Translational Imaging Program, Wake Forest School of Medicine Director, Combined MD/PhD Program, Wake Forest School of Medicine
	Moderator <i>Prof. Wan-Yuo Guo</i> Vice President / President-elect of The World Federation of Neuroradiological Societies
10:25-11:00	MD vs. AI: Pathology in the 21st century
Teleconference	Speaker <i>Instructor Kun-Hsing Yu (MD., Ph.D., USA)</i> Department of Biomedical Informatics, Harvard Medical School
	Moderator <i>Prof. Chi-Long Chen</i> Associate Dean, College of Medicine, Taipei Medical University Professor, Department of Pathology, School of Medicine, College of Medicine, Taipei Medical University
11:05-11:25	Tea Break

Special Lecture

11:25-11:45

Radiomics and Machine Learning in Cancer Research and Therapy

- Speaker** *Senior Assistant Prof. Khin Khin Tha (MD., Ph.D., Japan)*
Department of Diagnostic and Interventional Radiology, Hokkaido University Hospital
Global Station for Quantum Medical Science and Engineering, Global Institution for Collaborative Research and Education, Hokkaido University
- Moderator** *Prof. Chun-Jung Juan*
Chief, Department of Radiology, China Medical University Hsinchu Hospital
Vice Superintendent, China Medical University Hsinchu Hospital

11:50-12:10

Medical Image Analysis with Generative Adversarial Network

- Speaker** *Associate Prof. June-Goo Lee (Ph.D., Korea)*
Biomedical Engineering Research Center, Asan Institute for Life Sciences, Asan Medical Center, and University of Ulsan, College of Medicine
- Moderator** *Prof. Kwo-Whei Lee*
Attending physician, Department of Medical Imaging, Yuanlin Christian Hospital, Changhua
Superintendent, Yuanlin Christian Hospital

12:15-12:35

Understanding AI for Medical Imaging: Survey of Neural Networks Techniques

Teleconference

- Speaker** *Assistant Prof. Peter Chang (MD., USA)*
Co-Director, Center for Artificial Intelligence in Diagnostic Medicine, University of California, Irvine
Assistant Professor-in-Residence, Department of Radiological Sciences, University of California, Irvine
Co-Founder and President, Avicenna.ai, La Ciotat, France
- Moderator** *Prof. Tzung-Chi Huang*
Prof., Department of Biomedical Imaging and Radiological Science, China Medical University
Manager, Ever Fortune.AI Co., Ltd

12:40-14:00

Lunch Break

14:00-14:20

Deep learning and individualized prediction using neuroimaging data

Teleconference

- Speaker** *Prof. Jing Sui (Ph.D., China)*
Professor, University of Chinese Academy of Sciences
Brainnetome Center and National Laboratory of Pattern Recognition
Institute of Automation, Chinese Academy of Sciences
- Moderator** *Prof. Wei-Che Lin*
Chief, Division of Neuroradiology, Kaohsiung Chang Gung Memorial Hospital
Professor, Kaohsiung Chang Gung Memorial Hospital, Chang Gung University College of Medicine

14:25-14:45

Radiological application of Deep learning : what the radiologists need to know?

- Speaker** *Senior Researchers Yasuhiko Tachibana (MD., Ph.D., Japan)*
Senior Researcher of Applied MRI Research, Department of Molecular imaging and Theranostics,
National Institutes for Quantum and Radiological Science and Technology
- Moderator** *Associate Prof. Hung-Wen Kao*
Attending physician, Department of Radiology, Tri-Service General Hospital
Associate professor, Department of Radiology, National Defense Medical Center

14:50-15:10

Quantify the cerebral small vessel disease burden by artificial intelligence imaging analysis

- Speaker** *Prof. Chi-Jen Chen (MD., Taiwan)*
Chief, Department of Radiology, Taipei Medical University-Shuang Ho Hospital, Ministry of Health and Welfare
Professor, Department of Radiology, School of Medicine, College of Medicine, Taipei Medical University
- Moderator** *Associate Prof. Yuan-Hsiung Tsai*
Chief, Department of Medical Imaging, Chiayi Chang Gung Memorial Hospital

15:15-15:35

Tea Break

15:35-15:55

AI applied to mTBI / concussion

- Speaker** *Prof. Christopher T. Whitlow (MD., Ph.D., USA)*
I. Meschan Distinguished Professor of Radiology with Tenure
Chief of Neuroradiology, Department of Radiology
Vice Chair of Imaging Informatics, Department of Radiology
Director, Translational Imaging Program, Wake Forest School of Medicine
Director, Combined MD/PhD Program, Wake Forest School of Medicine
- Moderator** *Prof. Jiing-Feng Lirng*
Attending physician, Department of Radiology, Taipei Veterans General Hospital
Chairperson, Collage of Medicine, National Yang-Ming University

16:00-16:20 **How to design an imaging research using deep learning? A beginner's guide**

Speaker **Senior Researchers Yasuhiko Tachibana (MD., Ph.D., Japan)**
Senior Researcher of Applied MRI Research, Department of Molecular imaging and Theranostics,
National Institutes for Quantum and Radiological Science and Technology

Moderator **Prof. Ping-Hong Lai**
Director of Neuroimaging, Department of Radiology, Kaohsiung Veterans General Hospital
Professor, Department of Radiology, National Yang-Ming University

16:25-16:45 **Dual Convolutional Neural Network for Automated Rapid Prediction of Early Shunt-Responsive Idiopathic Normal Pressure Hydrocephalus with Magnetic Resonance Imaging**

Speaker **Dr. Yung-Chieh Chen (MD., Ph.D., Taiwan)**
Resident Physician, Department of Medical Imaging, Taipei Medical University Hospital
Translational Imaging Research Center (TIRC), Taipei Medical University Hospital

Moderator **Prof. Chao-Bao Luo**
President, The Neuroradiological Society of Taiwan
Chief, Division of Neuroradiology, Department of Radiology, Taipei Veterans General Hospital

16:50-17:00 **Closing Remarks**

Speaker **Prof. Sandy, Cheng-Yu Chen**

聯絡資訊

臺北醫學大學

臺北醫學大學附設醫院 轉譯影像研究中心

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教育積分

中華民國放射線醫學會 8 分 / 認定時數 7 小時

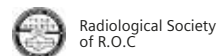
中華民國神經放射線醫學會 30 分

致謝

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臺北醫學大學醫療體系巨量影像資料庫建立與應用計畫

主辦單位



協辦單位

