

CONFERENCE SPEAKERS

Keynote Speakers



Prof. Kenji Suzuki

Tokyo Institute of Technology, Japan

Biography: Kenji Suzuki, Ph.D., (Nagoya University) worked at Hitachi Medical Corp, Aichi Prefectural University, Japan, as a faculty member, in Department of Radiology, University of Chicago, as Assistant Professor, and Medical Imaging Research Center, Illinois Institute of Technology, as Associate

Professor (Tenured). He is currently a Professor (Tenured) at Institute of Innovative Research, Tokyo Institute of Technology, Japan. He published more than 340 papers (including 115 peer-reviewed journal papers). He has been actively researching on deep learning in medical imaging and AI-aided diagnosis in the past 25 years, especially his early deep-learning model was proposed in 1994. His papers were cited 13,000 times, and his h-index is 52. He is inventor on 36 patents (including ones of earliest deep-learning patents), which were licensed to several companies and commercialized. He published 14 books and edited 12 journal special issues. He has been awarded numerous grants including NIH, NEDO, and JST grants, totaling \$17M. He served as Editors of 40 leading international journals including Pattern Recognition. He chaired 98 international conferences. He received 21 awards, including 3 Best Paper Awards in leading journals.

Keynote Lecture: Intelligent Medical Image Processing and Analysis with Deep Learning

Deep learning in artificial intelligence (AI) becomes one of the most active areas of research in pattern recognition, image processing, and medical imaging fields, because “learning from examples or data” is crucial to handling a large amount of data (“big data”) coming from imaging and vision systems. I invented ones of the earliest deeplearning models for image processing, semantic segmentation, object enhancement, and classification of patterns in medical imaging. My group has been actively studying on deep learning in medical imaging in the past 25 years. In this talk, intelligent medical image processing and analysis with deep learning are introduced, including 1) virtual medical imaging for separation of bones from soft tissue in chest x-ray images, 2) virtual medical imaging for converting low-radiation-dose images to virtual highradiation-dose images to reduce radiation dose in computed tomography (CT), 3) semantic segmentation of lesions and organs in medical images, and 4) AI-aided diagnosis for lesions in CT and x-ray images.



Prof. Cheng Deng

Xidian University, China

Biography: I am a Full Professor in School of Electronic Engineering at Xidian University. From 2012 to 2013, I was a Visiting Scholar at DVMM Lab with Prof. Shih-Fu Chang, Columbia University. Earlier, I received my Ph.D. degree under supervision of Prof. Xinbo Gao from School of Electronic Engineering, Xidian University in 2009. My research interests are the broad area of computer vision,

machine learning, and deep learning. I am particularly interested in massive multi-modal perception, analysis and reasoning, including cross-modality retrieval, language-to-visual, visual reasoning, and visual content analysis

Keynote Lecture: Cognition and Reasoning for Multi-modal Data

At present, we are in an era of enormous media data. A large number of images, videos, texts and