Center for Molecular Imaging and Translational Medicine

Academic Seminar on Molecular Imaging

2013

Title: A Robust and Accurate Approach for Tissue Quantification and Tumor Delineation with microPET Images

Abstract: Many approaches have been proposed to estimate tumor volume and tracer (18F-FDG) activity from positron emission tomography (PET) images. Nonetheless, none of them has widely agreed upon. I will give a presentation on a novel method, geometric-transfer-matrix-based thresholding method (GTMT), for the recovery of size and radioactivity concentrations of various tissue compartments in a variety of configurations.

Biography

Jyh-Cheng Chen received the BS degree in physics from National Central University, Taiwan, in 1983, and the MS degree in physics and PhD degree in optical sciences from the University of Arizona, USA in 1988 and 1995, respectively. Since 2012, He has been the Chairman of the Department of Biomedical Imaging and Radiological Sciences, National Yang-Ming University, Taiwan. His current research interests include image processing, analysis, and reconstruction. He is using microPET, microSPECT, microCT to do statistical image reconstruction, processing and analysis for animal molecular imaging studies. He is a member of IEEE and SNM. He served on the editorial board and reviewer of *International Journal of Biomedical Imaging*, guest editor of a special issue in *Computerized Medical Imaging and Graphic*, and reviewer for *IEEE Transactions on Medical Imaging*. He has also served domestically as the associate-editor-in-chief of *Annals of Nuclear Medicine and Sciences* (SNM, Taiwan).

Prof. Jyh-Cheng Chen

Time：2013.1.27
09:00-09:45

Place：302 room, Zengxianzi building

ALL ARE WELCOME!

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