

Session Program

9-12 May 2006



Euromedim 2006 :1st European Conference on Molecular Imaging Technology

***Poster Session :Simulation, Modeling,
Reconstruction***

Palais du Pharo, Marseille

Tuesday 9 May

14:00

Poster Session :Simulation, Modeling, Reconstruction

Poster Session | Location: Palais du Pharo, Marseille

New reconstruction algorithm for directional-derivative projections of the high-resolution DEI-CT

Speaker

Dr Zhi-Feng Huang

Simulation studies of an inline PET prototype

Speaker

Ms Marie-Charlotte RICOL

Analytical Reconstruction of Dynamic Cardiac SPECT with Noise-Reduction and Attenuation Compensation

Speaker

Prof. Hongbing Lu

Monte Carlo simulation of the deposited dose in a patient during a therapy with carbon ions

Speaker

Ms Nathalie DUFOUR

Assessment of input function distortions on kinetic model parameters in simulated dynamic ^{82}Rb PET perfusion studies

Speaker

Mr Andreas Thon

Non Contact Fluorescence Optical Tomography by means of Numerical and Analytical Approaches

Speaker

Dr Lionel Hervé

Measured and Simulated Specifications of the Lausanne ClearPET Scanner Demonstrator

Speaker

Martin Rey

The Influence of Noise in Full Monte Carlo ML-EM and Dual Matrix Reconstructions in Positron Emission Tomography

Speaker

Mr Niklas Rehfeld

PENELOPET, A monte carlo-based application for tomography based on PENELOPE

Speakers

Ms Esther Vicente Torrico, Mr Joaquín López Herraiz, Mr Samuel España Palomares

Gamma-ray Tracking Method Using a Digital Pulse Shape Analysis for Improving the Imaging Sensitivity of a Compton Camera

Speaker

Mr Nam Young Kim

Performance evaluation of a Small Animal PET Scanner. Spatial resolution characterization using 18-F and 11-C**Speaker**

Dr Antonello Spinelli

Full 3D cluster based iterative image reconstruction tool for small animal PET camera**Speaker**

Mr Ivan Valastyan

Study of randoms-induced artefacts in several small animal PET scanners**Speaker**

Mr JOAQUIN LOPEZ HERRAIZ

Investigation of a Whole-Body DOI-PET System**Speaker**

Mr junichi ohi

Performance of a Small Animal PET Scanner Based on Monolithic Scintillation Detectors**Speaker**

Dr Dennis R. Schaart

Detector normalization and scatter correction for the jPET-D4: a 4-layer depth-of-interaction PET scanner**Speaker**

Dr Keishi Kitamura

Geometric Sensitivity of ClearPET(TM) Neuro**Speaker**

Dr Brigitte Gundlich

MR Image Reconstruction from Partial k-Space Using Singularity Function Representation**Speaker**

Dr Yuemin ZHU

AUTOMATIC CALCULATION OF SUV ON FDG PET-CT LUNG LESIONS**Speaker**

Mr Ismael KARIDIOULA

Inter-crystal scatter identification for a depth-sensitive detector using support vector machine for small animal PET**Speaker**

Dr Eiji Yoshida

EVENT MODEL SIMULATING IN OBJECT ANALYSIS SYSTEM**Speaker**

Dr Vyacheslav Vinogradov

Validation on an Anthropomorphic Phantom of FORE Optimization in 3D PET

Speaker

Dr Elisabetta De Bernardi

Performance characteristics of a cluster based data acquisition system dedicated to PET scanners**Speaker**

Dr Miklos Emri

Effect of Detector Parameters on the Image Quality of Compton Camera for 99mTc**Speaker**

Ms So Hyun AN

3-D Reconstruction from Compton Scattered Data Using Two Different Approaches to Implementing Projector-Backprojector Pair**Speaker**

Ms Soo Mee Kim

Image optimization and dose evaluation in coronary stenosis using multi slices computed tomography**Speaker**

Mr Yung-Hui Huang

Validation of a GATE model for the simulation of the Siemens PET/CT biograph™ 6 scanner**Speaker**

Mr Panagiotis Gonias

Monte Carlo validation in the diagnostic radiology conditions.**Speaker**

Dr Dimitrios Nikolopoulos

PET Image Reconstruction: A Stopping Criterion Based on the Updating Coefficients of the ML-EM Algorithm**Speaker**

Dr Pedro Guerra

Investigation of the effect of the scintillator material on the overall X-ray detection system performance by application of analytical models**Speaker**

Mr Nikolaos Efthimiou

Evaluation of the conical scanning scheme for SPECT applications**Speaker**

Mr Vyacheslav Pedash

CONTRAST NOISE BEHAVIOUR FOR A ROTATING SLAT COLLIMATED GAMMA CAMERA**Speaker**

Mr Roel Van Holen

Investigations of the tomographic reconstruction issue in particular acquisition geometry in the framework of a bimodal microPET/CT**Speaker**

Mrs Solene Valton

A New Reconstruction Method for 3-D PET named pair of near-missing LORs (PNMLOR) method

Speaker

Dr Shoji Kawatsu

Comparison of simulated and experimental performances of the Concorde MicroPET Focus 220 system using the SORTEO Monte Carlo simulation software

Speaker

Dr Carole Lartizien

Estimating accidental coincidences for pixelated PET detectors and singles list-mode acquisition

Speaker

Dr Magdalena Rafecas

A NEW APPROACH TO CALCULATION OF PLANAR DETECTOR EFFICIENCY FACTORS FROM COINCIDENCE DATA FOR THE NON-ROTATING QUAD-HIDAC PET SCANNER

Speaker

Ms Leticia Ortega Maynez

15:00