Wednesday – December 7

9:00 am – 10:00 am

Key Note

Marius Linguraru
"Computational Anatomy in Abdominal Imaging and Beyond"
School of Medicine and Health Sciences of George Washington University, Washington, DC

10:20 am – 11:40 am

Large Scale Data Interactions

Extending PACS functionality: towards facilitating the conversion of clinical necessities into research-derived applications
Fernando Yepes-Calderon - Childrens Hospital Los Angeles
Secure multivariate large-scale multi-centric analysis through on-line learning: an imaging genetics case study
Marco Lorenzi - University College London
Radiomics-based quantitative biomarker discovery: development of a robust image processing infrastructure
Darryl H Hwang - University of Southern California
A radiology image retrieval system based on user preferences
Germán Corredor - Universidad Nacional de Colombia

Brain Connectomics

Tract-based spectroscopy to investigate pediatric brain trauma
Emily L Dennis - IGC
Clustering white matter fibers using support vector machines: a volumetric conformal mapping approach
Vikash Gupta - Imaging Genetics Center, University of Southern California
Improvement of co-occurrence matrix calculation and collagen fibers orientation estimation
Luciana Erbes - CITER - CONICET
Brain functional connectivity in attention deficit hyperactivity disorderc
Natasha Lepore - CIBORG Laboratory, Children's Hospital Los Angeles

12:00 pm – 1:40 pm

Data Simulation & Modelling

Porosity distribution upon the surface of a deployed flow diverter: an experimental and simulation study
Ignacio Larrabide - GalgoMedical
Changes on abdominal aortic fluid dynamics after implantation of grafts based on endovascular aneurysm sealing system (EVAS)
Damian Craiem - Favaloro University
Hierarchical eigenmodes to characterize bladder motion and deformation in prostate cancer radiotherapy
Richard Rios - Universidad Nacional de Colombia Sede Medellín
Flow diverter stents simulation with CFD: porous media modelling
Nicolás Dazeo - PLADEMA
A comparative study between parallel and normal excitation for crawling wave sonoelastography
Stefano Romero - Pontificia Universidad Católica del Perú

Brain - Signal Procesing

Automatic detection of perturbed magnetic resonance signal
Jennifer Salguero - Universidad Militar Nueva Granada
Algorithm for the identification of resting state independent networks in fMRI
Patricio Donnelly Kehoe - Laboratory for System Dynamics and Signal Processing, UNR, CIFASIS-CONICET
Bayesian super-resolution in brain diffusion weighted magnetic resonance imaging (DW-MRI)
Juan Celis - Universidad Nacional de Colombia
Improved clinical diffusion MRI reliability using a tensor distribution function compared to a single tensor
Dmitry Isaev - University of Southern California
Leveraging sparsity to detect HRF variability in fMRI
PK Douglas - UCLA

Closing Event