**Wednesday – December 7**

### Key Note

**Marius Lingurarul**  
“Computational Anatomy in Abdominal Imaging and Beyond”  
School of Medicine and Health Sciences of George Washington University, Washington, DC

### Large Scale Data Interactions

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<th>Time</th>
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| 9:00 am – 10:00 am | **Extending PACS functionality: towards facilitating the conversion of clinical necessities into research-derived applications**  
Fernando Yepes-Calderon - Children's Hospital Los Angeles  
**Secure multivariate large-scale multi-centric analysis through on-line learning: an imaging genetics case study**  
Marco Lorenzo - 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

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| 10:20 am – 11:40 am | **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 disorder**  
Natasha Lepore - CIBORG Laboratory, Children’s Hospital Los Angeles |

### Data Simulation & Modelling

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| 12:00 pm – 1:40 pm | **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 Processing

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| 9:00 am – 10:00 am | **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