



Tuesday – December 6

9:00 am – 10:00 am

Key Note

Anant Madabhushi
“Predictive and Prognostic Radiomics and Pathomics for Precision Medicine”
Case Western Reserve University, Cleveland

10:20 am – 11:40 m

Digital Pathology

Pigmented skin lesion segmentation based on sparse texture representations
César Martínez - Institute for Signals, Systems and Computational Intelligence (sinc), University of Litoral-CONICET
Microscope cell color images segmentation by fuzzy morphological reconstruction
Virginia Laura Ballarin - ICYTE Instituto de Investigación en Ciencia y Tecnología
Color separation of H&E stained samples by linearly projecting the RGB representation onto a custom discriminant
Paula Dorado - Universidad Nacional de Colombia
Nuclei graph local features for basil cell carcinoma classification in whole slide images
David Romo-Bucheli - Universidad Nacional de Colombia

E-Health, , diabetes and glaucoma

Geometric adaptive control in type 1
Guillermo Cocha - Universidad Tecnológica Nacional
Anthropometric index for insulin sensitivity assessment in older adults from Ecuadorian highlands
Sara Wong - Universidad Simón Bolívar
Convolutional network to detect exudates in eye fundus images of diabetic subjects
Oscar Perdomo - Universidad Nacional de Colombia
Convolutional neural network transfer for automated glaucoma identification
José Ignacio Orlando - PLADEMA

2:00 pm – 3:00 pm

Key Note

Franco Lepore
“The effects of vision loss due to peripheral or central damage on performance or brain changes”
Centre de Recherche en Neuropsychologie et Cognition (CERNEC), Université de Montréal

3:05 pm – 4:45 pm

Brain - Behavioral Disorders

Variable clustering reveals associations between subcortical brain volume and cognitive changes in pediatric traumatic brain injury
Artemis Zavaliangos-Petropulu - Artemis Imaging Genetics Center
Utilizing brain measures for large-scale classification of autism using EPIC
Marc Harrison - Neuroimaging and Informatics
A multidimensional feature space for automatic classification of autism spectrum disorders (ASD)
Javier Almeida - Universidad Nacional de Colombia
Large-scale classification of major depressive disorder via distributed Lasso
Dajiang Zhu - Imaging Genetics Center, University of Southern California
Exploring Alzheimer's anatomical patterns through convolutional networks
Juan Manuel Ortiz Suarez - Universidad Industrial de Santander

Cardiovascular System

3D optical flow estimation in cardiac CT images using the Hermite transform
Ernesto Moya-Albor - Universidad Panamericana
Identification of border-zone corridors in the left ventricle using the core expansion method
Luis Serra - GALGO MEDICAL SL
Detection of morphological structures for vessel wall segmentation in IVUS using random forests
Lucas Lo Vercio - Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)
Low-cost phantoms for validating measurements in ultrasound vascular images
Hugo Luis Manterola - PLADEMA
Real-time vascular response assessment by means of a dual pressure-diameter device: a preliminary study
Natalia Pérez López - ACULTAD REGIONAL BUENOS AIRES - UTN

5:05 pm – 6:35 pm

Workshop

Workshop 2	Workshop 3	Workshop 4
Neural network mapping before and during epileptic seizures in human of intracerebral macro and micro electrodes	Local fractal and multifractal features in medical image	Eye Cancer Treatment

CONFERENCE DINNER (More information: larrabide@exa.unicen.edu.ar)