SIPAIM 2016

Monday - December 5

9:00 am – 10:00 am

Key Note

Petia Radeva
"How Egocentric Vision and Visual Lifelogging complement medical images in health applications?"
Barcelona Perceptual Computing Laboratory (BCNPCL) at the University of Barcelona

10:20 am – 11:40 am

Biosginal

Open access database of EEG signals recorded during imagined speech
German Alberto Pressel - Universidad Nacional de Entre Ríos.
Transfer entropy to characterize brain-heart topology in sleep apnea patients treated with continuous positive airway pressure
Edwin Alexander Cerquera - Universidad Antonio Nariño
Detection of non-homogeneous cycles in blood flow signals in coronary grafts
Lucas D Lo Vercio - Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)
Granger causality suggests an association between heart rate variability and EEG band power dynamics
Universidad Iberoamericana - Aurora Victoria De la Cruz Armienta

Ultrasound

Fetal biometric measurements during the first trimester of pregnancy
Erik Bojorges-Valdez - Universidad Iberoamericana
Segmentation of the nuchal fold in fetal ultrasound images
Fernando Arámbula Cosío - Universidad Nacional Autónoma de México
Ultrasound fetal brain registration using weighted coherent point drift
Jorge Luis Perez-Gonzalez - Universidad Autónoma Metropolitana
Comparison of real-time ultrasound simulation models using abdominal CT images
Pablo Rubí - PLADEMA

2:00 pm – 3:00 pm

Key Note

Olivier Coulon
"Cortical Folding and Sulcal Pits"
Centre National de la Recherche Scientifique, Paris Tech, Paris

3:05 pm – 4:45 pm

Brain - Structure

Multivariate surface-based analysis of corpus callosum in patients with sickle cell disease
CHLA - Yaqiong Chai
The changing brain in healthy aging: a multi-MRI machine and multicenter surface-based morphometry study
UNR, CIFASIS-CONICET - Patricio A Donnelly Kehoe
The core genetic network underlying sulcal morphometry
Imaging Genetics Center, USC (US,CA) - Fabrizio Pizzagalli
Hippocampal segmentation using mean shift algorithm
Guadalupe Universidad Autónoma Metropolitana - Guadalupe López Palafox
Putamen development in children 12 to 21 months old
Children's Hospital Los Angeles - Roza M Vlasova

Man Machine Interface

Classifiers' comparison for P300 detection in a modified speller
Universidad Autónoma Metropolitana - Omar Piña-Ramírez
Multiple motion gaming devices based balance evaluation plataform
Soongsil University - Eun-Young Lee
Quantifying the gait pattern adaptation to auditory feedback in healthy elder
Universidad Nacional de Colombia - Gustavo Pineda Ortiz

Methods

Development of methods for deconvolution algorithms performance analysis using FIJI and Icy plugins
ByPIB (CITER-CONICET) - LAMAE (UNER) - Luciana A Erbes
Fast fourier transform based analysis of renal masses on contrast-enhanced computed tomography images for grading of tumor
University of Southern California - Bino Varghese
Ray-casting method to assess the quality of segmented surfaces from 3D images
UNCPBA - Juan P D'Amato
Video motion magnification for monitoring of vital signals using a perceptual model
Universidad Panamericana - Jorge Brieva
Cortical connectome registration using spherical demons
University of Southern California - Boris Gutman

5:05 pm – 6:35 pm

Workshop

Workshop 1

Diagnosis of aortic diseases using Computed Tomography images
and deformable surface models