

Sunday - October 4th



16th International Symposium  
on Medical Information  
Processing and Analysis |  
Virtual Meeting

	Peru Time (UTC-5)
<b>Keynote Talk</b> Chair: Dr. Jorge Brieва	9:15
<b>Keynote: Dr. Prateek Prasanna</b> <b>Talk: "From Artificial to Actionable Intelligence: Towards Machine Learning based Biomarker Discovery"</b>	
	10:15
<b>Coffee break</b>	
<b>MICCAI Clinical Workshop</b>	10:30
<b>Speaker: Mauricio Reyes</b> <b>Talk: "Neuroimage analysis and brain lesion quantification"</b>	
<b>MICCAI Clinical Workshop</b>	11:00
<b>Speaker: Benjamín Castañeda</b> <b>Talk: "AI for pneumonia detection based on lung ultrasound"</b>	
	11:30
<b>Coffee break</b>	
	12:00
<b>Lunch</b>	
<b>Brain Imaging II</b> Chair: Dr. Fernando Arambula	12:30
<b>Sex-dependent age trajectories of subcortical brain structures: analysis of large-scale percentile models and shape morphometry</b> <small>Presenter: Christopher Ching. University of Southern California, CA, USA.</small>	
<b>Advanced diffusion-weighted MRI metrics detect sex differences in aging among 15,000 adults in the UK Biobank</b> <small>Presenter: Katherine Lawrence. University of Southern California, CA, USA.</small>	
<b>Exogenous sex hormone effects on brain microstructure in women: a diffusion MRI study in the UK Biobank</b> <small>Presenter: Leila Nabulsi. University of Southern California, CA, USA.</small>	
	13:30
<b>Brain Imaging II - Q&amp;A and virtual coffee</b>	
<b>Ultrasound</b> Chair: Dr. Caroline Brun	12:30
<b>High performance ultrasound simulation using Monte-Carlo simulation: a GPU ray-tracing implementation</b> <small>Presenter: Tomas Perez Cambet. CONICET, Buenos Aires, Argentina.</small>	
<b>2D PCA for automatic segmentation of the prostate in ultrasound images</b> <small>Presenter: Zian Fanti. Universidad Nacional Autónoma de México, Ciudad de México, México.</small>	
<b>Analysis and classification of lung and muscular tissues in ultrasound images using 2D wavelet transform and machine learning</b> <small>Presenter: Sara Lucia Contreras. Universidad Tecnológica de Bolívar, Cartagena, Colombia.</small>	
<b>Endoscopic ultrasound database of the pancreas</b> <small>Presenter: Maria Jaramillo. Universidad Nacional de Colombia, Bogotá, Colombia.</small>	
	13:30
<b>Ultrasound - Q&amp;A and virtual coffee</b>	
<b>Keynote Talk</b> Chair: Dr. Natasha Lepore	14:00
<b>Keynote: Dr. Pedro Valdés-Sosa</b> <b>Panel on Cuban Medical Response to COVID-19</b>	
<b>Biosignals I</b> Chair: Dr. Ernesto Moya	15:00
<b>A novel approach for QRS complex detection in patients with atrial arrhythmia</b> <small>Presenter: Jader Giraldo. Universidad Tecnológica de Bolívar, Cartagena, Colombia.</small>	
<b>Modeling the vital sign space to detect the deterioration of patients in a pediatric intensive care unit</b> <small>Presenter: Ledys Izquierdo. Universidad Nacional de Colombia, Bogotá, Colombia.</small>	
<b>Non-contact breathing rate monitoring system using a magnification technique and artificial hydrocarbon networks</b> <small>Presenter: Jorge Brieva. Universidad Panamericana, Ciudad de México, México.</small>	
<b>EEG feature selection for ADHD detection in children</b> <small>Presenter: Isabela Marina Mercado. Universidad Tecnológica de Bolívar, Cartagena, Colombia.</small>	
	16:00
<b>Biosignals I - Q&amp;A and virtual coffee</b>	
<b>Biosignals II</b> Chair: Dr. Darryl Hwang	15:00
<b>Unpaired PET/CT image synthesis of liver region using CycleGAN</b> <small>Presenter: Gianmarco Santini. KEOSYS Medical Imaging, Nantes, France.</small>	
<b>Music-based neurofeedback system for stress regulation and memory stimulation</b> <small>Presenter: Álvaro José Bocanegra. Escuela Colombiana de Ingeniería Julio Garavito, Bogotá, Colombia.</small>	
<b>Bidimensional Analysis of Reverberant Shear Wave Elastography with multiple aleatory mini-surface sources: Simulation study</b> <small>Presenter: Aldo Tecse. Pontificia Universidad Católica del Perú, Lima, Perú.</small>	
<b>Automatic estimation of pose and falls in videos using computer vision model</b> <small>Presenter: Oscar Perdomo. Universidad del Rosario, Bogotá, Colombia.</small>	
	16:00
<b>Biosignals II - Q&amp;A and virtual coffee</b>	
	16:30
<b>Closing remarks</b>	
	17:00