

Thursday - November 19
09:00 - 10:00
Keynote

Room: Architecture Auditorium

The ENIGMA Project: Mapping Disease and Genetic Effects on the Brain in 50,000 People from 35 Countries Worldwide

Paul Thompson

University of Southern California, USA

10:15 - 11:35
Software Development

 Room: Architecture Auditorium
 Chair: Juan David García Arteaga

Fast, accurate, robust and Open Source Brain Extraction Tool (OSBET)

 R. Namias, P. Donnelly Kehoe, J.P. D'Amato and J. Nagel
 Machine Learning and Applications Group, CIFASIS-CONICET, Rosario, Argentina.
 Universidad Nacional de Rosario, Universidad Nacional del Centro, Tandil, Argentina.
 Instituto Gamma, Rosario, Argentina.

Open Source Cardiology Electronic Health Record Development for DIGICARDIAC Implementation

 Nelson Dugarte and Rubén Medina and Rubén Rojas
 Universidad de Los Andes, Mérida, Venezuela; Universidad de Cuenca, Cuenca, Ecuador

Grid Platform for Medical Federated Queries Supporting Semantic and Visual Annotations

 Ronald Guadalán, Juan Guillermo, Wilson Pérez, Lizandro Solano-Quinde, Washington Ramirez, Alexandra La Cruz
 University of Cuenca, Ecuador; Universidad Politécnica Salesiana, Quito, Ecuador;

WebMedSA: A Web-based Framework for Segmenting and Annotating Medical Images using Biomedical Ontologies

 Francisco Vega, Wilson Pérez, Andrés Tello, Victor Saquicela, Mauricio Espinoza, Lizandro Solano-Quinde,
 María-Esther Vidal, Alexandra La Cruz
 University of Cuenca, Ecuador; Universidad Simón Bolívar, Caracas, Venezuela

Spacial Composition of US Images Using Probabilistic Weighted Means

 J.L. Pérez-González, Fernando Arámbula Cosío and V. Medina-Bañuelos
 Universidad Autónoma Metropolitana – Iztapalapa, Universidad Nacional Autónoma de México, México D.F.,
 Consejo Nacional de Inv. Científicas y Técnicas (CONICET), CABA, Argentina, Instituto PLADEMA - UNCPBA, Tandil,
 Argentina; Comisión de Inv. Científicas de la Prov. Bs. As., La Plata, Argentina

An explorative childhood pneumonia analysis based on ultrasonic imaging texture features

 Omar Zenteno, Kristians Diaz, Roberto Lavarello, Mirko Zimic, Malena Correa, Holger Mayta, Cynthia Anticona,
 Monica Pajuelo, Richard Oberheimer, William Checkley, Robert H Gilmane, Dante Figueroa, Benjamin Castañeda
 Universidad Católica del Perú, Lima; Tulane University, New Orleans, Louisiana, USA; Johns Hopkins University,
 Baltimore, USA; Instituto Nacional de Salud del Niño, Lima, Perú

An Analysis Of Mechanical And Computational Properties For Noninvasive Vascular Elastography

 H. L. Manterola, M. del Fresno and I. Larrañaga
 Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina;
 Comisión de Investigaciones Científicas de la Pcia. de Bs. As. (CIC-PBA), Argentina.

Automatic segmentation of the fetal cerebellum using spherical harmonics and gray level profiles

 Gustavo Velásquez-Rodríguez, Fernando Arámbula Cosío, Boris Escalante Ramírez
 Universidad Nacional Autónoma de México (UNAM)

13:30 - 14:30
Ultrasound

 Room: Cesar Dávila Andrade
 Chair: Fabian Narvaez

Bridging the Divide between In Vivo and Ex Vivo Imaging of the Human Medial Temporal Lobe in Aging and Dementia

 Paul Yushkevich
 University of Pennsylvania, USA

14:30 - 15:50
Keynote
Image & Signal Applications

 Room: Architecture Auditorium
 Chair:

EEG Source analysis of data from paralysed subjects

 Carmen A. Caraball, John O. Willoughby, Sean P. Fitzgibbon, Tyler Gurment, Trent Lewis, Dylan DeLosAngeles,
 Kenneth J. Pope
 Universidad de las Américas, Quito, Ecuador; Flinders University, Adelaide, Australia

An intelligent ecosystem to support the psychological diagnosis and intervention of children under social vulnerability

 Fernando Pérez-Avilés, Verónica Cevallos-León Wong, Vladimir Robles-Bykbaev, Estefanía Borck-Vintimilla,
 Santiago Flores-Andrade, Yenner Pinela-Vila, Ana Pacurucu-Pacurucu

Universidad Politécnica Salesiana, Cuenca, Ecuador; Universidad del Azuay, Cuenca, Ecuador

Quantitative Image based assement of the effect of Titanium biofunctionalisation by immobilization of Raloxifene on bone density

 Dianney Clavijo Grimaldo, Vladimir Galindo, Juan D. García-Arteaga, Eduardo Romero
 Universidad Nacional de Colombia

CinC Challenge 2013: Comparing three algorithms to extract fetal ECG

 Juan Loja, Esteban Velecela, Kenneth Palacio-Baus, Darwin Astudillo, Rubén Medina, Sara Wong
 University of Cuenca, Ecuador;

Data Fusion for QRS Complex Detection in Multi-Lead Electrocardiogram Recordings

 Carlos A. Ledezma, Gilberto Perpiñan, Erika Severeyn and Miguel Altuve
 Universidad Simón Bolívar, Caracas, Venezuela; Pontifical Bolivarian University, Bucaramanga, Colombia

Semiautomatic validation of RR Series in an ECG stress test database

 Jairo Armijos, David García, Darwin Astudillo, Kenneth Palacio-Baus, Rubén Medina, Sara Wong
 University of Cuenca, Ecuador

Detection of Segments with Fetal QRS Complex from Abdominal Maternal ECG Recordings using Support Vector Machine

 Juan A. Delgado, Miguel Altuve, and Masun Nabhan Horns
 Simon Bolívar University, Caracas, Venezuela; Pontifical Bolivarian University, Bucaramanga, Colombia

16:10 - 18:00
ECG

 Room: Cesar Dávila Andrade
 Chair: Lizandro Solano

CLOSING
Discussion - Sipaim Meeting - Closing Event