

XX Iberoamerican Congress on Pattern Recognition

CIARP 2015

Program

	Monday, Nov. 9	Tuesday, Nov. 10	Wednesday, Nov. 11	Thursday, Nov. 12
8:00 - 9:00	Registration			
09:00 - 10:30	Plenary Talk Guillermo Sapiro	Plenary Talk Rene Vidal	Plenary Talk Magnus Fontes	Plenary Talk Josef Kittler
10:30 - 11:30	P01	P03	P05	P07
11:30 - 13:00	T01	T03	T05	T07
13:00 - 14:30	Lunch	Lunch	Lunch	Lunch
14:30 - 16:00	T02	T04	T06	T08
16:00 - 18:00	P02	P04	P06	P08
20:30 -				Gala Dinner

Txx: Oral presentations

Pxx: Poster session

Session	Paper ID	Authors. Title
T01	95	Levi Vasconcelos, Erickson Do Nascimento and Mario Campos. A Scale Invariant Keypoint Detector Based on Visual and Geometrical Cues
T01	57	David Menotti, Laurent Najman and Arnaldo Araújo. Efficient Polynomial Implementation of Several Multithresholding Methods for Gray-Level Image Segmentation
T01	175	Nicola Pierazzo, Jean-Michel Morel and Gabriele Facciolo. Optimizing the Data Adaptive Dual Domain Denoising Algorithm
T01	27	Gonzalo Sanguinetti, Remco Duits, Erik Bekkers, Michiel Janssen, Alexey Mashtakov and Jean-Marie Mirebeau. Sub-Riemannian Fast Marching in SE(2)
T01	109	Zenilton Kleber G. Patrocínio Jr. and Silvio Jamil F. Guimarães. Re-ranking of the Merging Order for Hierarchical Image Segmentation
T02	147	Lara Raad, Agnès Desolneux and Jean Michel Morel. Multiscale Exemplar Based Texture Synthesis by Locally Gaussian Models
T02	69	Lucas Alexandre Ramos, Gustavo Botelho Souza and Aparecido Nilceu Marana. Shape Analysis Using Multiscale HTS
T02	145	Jorge Martinez., Silvina Pistonesi and Ana Georgina Flesia. Inference strategies for texture parameters
T02	18	Anderson Santos and Helio Pedrini. Human Skin Segmentation Improved by Texture Energy Under Superpixels
T02	89	Thiago P. Ribeiro, Leandro N. Couto, André R Backes and Celia A. Z. Barcelos. Texture Characterization via Automatic Threshold Selection on Image-Generated Complex Network
T03	104	Cristian Guarnizo, Mauricio Alvarez and Alvaro Orozco. Indian Buffet process for model selection in latent force models

Session	Paper ID	Authors. Title
T03	65	José Kadir Febrer Hernández, Raudel Hernández León, José Hernández Palancar and Claudia Feregrino Uribe. SPaR-FTR: An Efficient Algorithm for Mining Sequential Patterns-based Rules
T03	173	Andrés Esteban Páez-Torres and Fabio A. González. Online Kernel Matrix Factorization
T03	43	Mariano Tepper and Guillermo Sapiro. From Local to Global Communities in Large Networks Through Consensus
T03	112	Fabio Vicente, Euler Menezes, Gabriel Rubino, Juliana de Oliveira and Fabrício Martins Lopes. A feature selection approach for evaluate the inference of GRNs through biological data integration - A case study on A. thaliana
T04	39	Guilherme Martins, Jurandy Almeida and Joao Paulo Papa. Supervised Video Genre Classification Using Optimum-Path Forest
T04	118	Fabián Páez and Fabio González. Annotating and Retrieving Videos of Human Actions using Matrix Factorization
T04	142	Nancy Arana Daniel and Isabel Cibrian-Decena. Recognition of Non-pedestrian Human Forms Through Locally Weighted Descriptors
T04	164	Reginaldo Rocha, Priscila Tiemi Maeda Saito and Pedro H. Bugatti. A Novel Framework for Content-Based Image Retrieval through Relevance Feedback Optimization
T04	51	Thierry Moreira, Marlon Alcantara, Helio Pedrini and David Menotti. Fast and Accurate Gesture Recognition Based on Motion Shapes
T05	139	Sergio Campos, Luis Pizarro, Carlos Valle, Katherine Gray, Daniel Rueckert and Hector Allende. Evaluating imputation techniques for missing data in ADNI: A patient classification study
T05	162	Maria Ines Fariello, Eileen Armstrong and Alicia Fernandez. Genetic Prediction in bovine meat production: ¿Is worth integrating bayesian and machine learning approaches? A comprehensive analysis
T05	153	Sebastián Sierra, Juan Molina, Angel Cruz, José Daniel Pabón, Raúl Ramos-Pollán, Fabio A. González and Hugo Franco. Classification of low-level atmospheric structures based on a pyramid representation and a machine learning method
T05	148	Janneth Escobar, Mary Berdugo, Orlando Rangel-Ch and Francisco Gomez. Inferring leaf blade development from examples
T05	106	Juan Cruz Rodriguez, Germán González, Cristóbal Fresno and Elmer Fernández. Integrative Functional Analysis improves information retrieval in Breast Cancer.
T06	80	Sebastian Gomez, Mauricio Alvarez, Hernan Garcia, Jorge Rios and Alvaro Orozco. Discriminative Training for Convolved Multiple-Output Gaussian Processes
T06	82	Raudel Hernández León. Improving the accuracy of CAR-based Classifiers by combining Netconf measure and Dynamic-K mechanism
T06	135	Gabriel Martos Venturini and Alberto Muñoz. Local entropies for kernel selection and outlier detection in functional data
T06	2	Silas Fernandes, Walter Scheirer, David Cox and Joao Paulo Papa. Improving Optimum-Path Forest Classification Using Confidence Measures
T06	181	Diego Hernán Peluffo-Ordoñez, Andrés Eduardo Castro-Ospina, Juan Carlos Alvarado-Pérez and Javier Revelo - Fuelagán. Multiple kernel learning for spectral dimensionality reduction
T07	58	José Hernández-Palancar and Alfredo Muñoz-Briseño. A New Fingerprint Indexing Algorithm for Latent and Non-latent Impressions Identification
T07	24	Moez Ajili, Jean-François Bonastre, Solange Rossato, Juliette Kahn and Itshak Lapidot. Homogeneity Measure for Forensic Voice Comparison: A step forward reliability
T07	76	Amirhosein Toosi, Sandro Cumani and Andrea Bottino. On Multiview Analysis for Fingerprint Liveness Detection
T07	34	Marianela Parodi and Juan Carlos Gomez. Online Signature Verification: Is the whole greater than the sum of the parts?
T07	140	Joao Paulo Canario and Luciano Oliveira. Recognition of facial expressions based on deep conspicuous net
T08	35	Fernando Garcia Granada, Emilio Sanchis, Lluís-F. Hurtado and Encarna Segarra. Adaptive Training for Robust Spoken Language Understanding
T08	81	Diego Acuña, Héctor Allende-Cid and Héctor Allende. The effect of innovation assumptions on asymmetric GARCH models for volatility forecasting
T08	50	Luis Miguel Gato Díaz, Liset Martínez Marrero and Jorge Torres Gómez. Blind spectrum sensing based on cyclostationary feature detection
T08	55	Ana Montalvo, Yandre Costa and José Ramón Calvo. Language Identification Using Spectrogram Texture
T08	11	Marcos Calvo, Lluís Hurtado, Fernando Garcia and Emilio Sanchis. Combining Several ASR

Session	Paper ID	Authors. Title
		Outputs in a Graph-Based SLU System
P01	60	Anderson Brilhador, Daniel Serrarens and Fabrício Martins Lopes. A computer vision approach for automatic measurement of the inter-plant spacing
P01	99	Daniel Barragan, Maria Trujillo and Ivan Cabezas. An EA-based Method for Estimating the Fundamental Matrix
P01	131	Mariano Bianchi, Heredia Nadia, Francisco Gómez-Fernández, Alvaro Pardo and Marta Mejail. Two Applications of RGB-D Descriptors in Computer Vision
P01	134	Cesar Castelo-Fernandez and Guillermo Calderon-Ruiz. Automatic Video Summarization Using the Optimum-Path Forest Unsupervised Classifier
P01	166	Marcos Daniel Baroni and Flávio Varejão. A shuffled complex evolution algorithm for the multidimensional knapsack problem
P01	115	Pablo Negri. Pedestrian Detection Using Multi-Objective Optimization
P02	70	J. Matías Di Martino, Alicia Fernandez and José Ferrari. Automatic eyes and nose detection using curvature analysis.
P02	87	Silvina Pistonesi, Jorge Martinez, Silvia María Ojeda and Ronny Vallejos. A novel quality image fusion assessment based on maximum codispersion
P02	46	Mauricio Orbes-Arteaga, David Cárdenas-Peña, Mauricio Álvarez, Alvaro Orozco and Germán Castellanos-Dominguez. Magnetic Resonance Image Selection for Multi-Atlas Segmentation using Mixture Models
P02	111	Ignacio Ramirez. Interleaved quantization for near-lossless image coding
P02	152	Gustavo Ulloa, Héctor Allende-Cid and Héctor Allende. Image edge detection based on a spatial autoregressive bootstrap approach
P02	180	Martin Rais, Jean-Michel Morel and Gabriele Facciolo. Iterative gradient-based shift estimation: to multiscale or not to multiscale?
P02	110	Martín Patrone, Federico Lecumberry, Álvaro Martín, Ignacio Ramirez and Gadiel Seroussi. EEG Signal Processing for the P300 speller
P02	33	Karel Toledo de La Garza, Jorge Torres Gómez and Liset Martínez Marrero. Digital Filter Design with Time Constraints based on Calculus of Variations
P02	117	Carlos Mera, Jose Arrieta, Mauricio Orozco-Alzate and John Branch. A Bag Oversampling Approach for Class Imbalance in Multiple Instance Learning
P03	158	Viviana Beltran, Jorge A. Vanegas and Fabio Gonzalez. Semi-supervised Dimensionality Reduction via Multimodal Matrix Factorization
P03	13	Gustavo Rosa, Aparecido Marana, David Cox, Walter Scheirer and Joao Paulo Papa. Fine-Tuning Convolutional Neural Networks Using Harmony Search
P03	124	Diego Luchi, Willian Santos, Flávio Varejão and Alexandre Rodrigues. Genetic Sampling K-means for Clustering Large Data Sets
P03	8	Roberto Alejo, Juan Monroy de Jesus, Rosa María Valdovinos, Horacio Pacheco, Juan Antonio-Velazquez and Raymundo Marcial-Romero. Analysing the safe, average and border samples on two-class imbalance problems in the Back-propagation domain
P03	71	José Kadir Febrer Hernández, Raudel Hernández León, José Hernández Palancar and Claudia Feregrino. Improving the Accuracy of the Sequential Patterns-based Classifiers
P03	72	Víctor Iván González-Guevara, Salvador Godoy-Calderon, Eduardo Alba-Cabrera and Julio Ibarra-Fiallo. Mixed learning strategy for Typical Testors
P04	49	Frank Julca-Aguilar, Harold Mouchère, Christian Viard-Gaudin and Nina Hirata. Top-Down Graph Grammar Parsing for Recognition of Online Handwritten Mathematical Expressions
P04	21	André R Backes, Jarbas Sá Junior and Rosana M. Kolb. Color Fractal Descriptors for Adaxial Epidermis Texture Classification
P04	107	Edemir Ferreira de Andrade Junior, Arnaldo de Albuquerque Araújo and Jefersson Alex Dos Santos. A Multiclass Approach for Land-Cover Mapping by Using Multiple Data Sensors
P04	168	Keiller Nogueira, William Robson Schwartz and Jefersson A. Dos Santos. Coffee Crop Recognition Using Multi-scale Convolutional Neural Networks
P04	183	Ricardo Moncayo, David Romo and Eduardo Romero. A Grading Strategy for Nuclear Pleomorphism in Histopathological Breast Cancer Images Using a Bag of Features (BOF)
P04	53	Fernanda Rodriguez, Matías Di Martino, Juan Pablo Kosut Cia, Fernando Santomauro, Federico Lecumberry and Alicia Fernández. Optimal and Linear F-measure Classifier Applied to Nontechnical Losses Detection
P04	97	Bernardo Marengo, Magdalena Fuentes, Florencia Lanzaro, Martín Rocamora and Álvaro Gómez. A multimodal approach for percussion music transcription from audio and video
P04	90	Martín Rocamora and Luiz W. P. Biscainho. Modeling onset spectral features for discrimination of drum sounds

Session	Paper ID	Authors. Title
P04	137	Ximena Fernandez, Rosana Garcia, Enrique Ferreira and Juan Menendez. Classification of Basic Human Emotions from Electroencephalography Data
P04	105	Marco Túlio Alves Rodrigues, Daniel Balbino, Erickson Rangel Nascimento and William Robson Schwartz. A Non-Parametric Approach to Detect Changes in Aerial Images
P05	16	Tomás Mardones, Héctor Allende and Claudio Moraga. Graph Fusion Using Global Descriptors for Image Retrieval
P05	98	Javier Redolfi, Jorge Sánchez and Julián Pucheta. Leaf image classification with exponential family Fisher vector
P05	108	Vinicius Von Glehn De Filippo, Zenilton Kleber G. Patrocínio Jr. and Silvio Jamil F. Guimarães. Hierarchical Combination of Semantic Visual Words for Image Classification and Clustering
P05	144	Yuri H. Ribeiro, Zenilton Kleber G. Patrocínio Jr. and Silvio Jamil F. Guimarães. Kernel Combination through Genetic Programming for Image Classification
P05	138	Geovana Lima, Thullyo Castilho, Pedro Bugatti, Priscila Saito and Fabrício Martins Lopes. A Complex Network-Based Approach to the Analysis and Classification of Images
P05	59	Leonardo Chang, Airel Pérez-Suárez, Máximo Rodríguez-Collada, José Hernández Palancar, Miguel Arias Estrada and Luis Enrique Sucar. Assessing the Distinctiveness and Representativeness of Visual Vocabularies
P07	32	Ramon Pessoa, Jefersson Alex Dos Santos and William Schwartz. A Study on Low-Cost Representations for Image Feature Extraction on Mobile Devices
P07	42	Selene Solorza-Calderón and Jonathan Verdugo-Olachea. A RFM Pattern Recognition System Invariant to Rotation, Scale and Translation
P07	93	Leonardo F. S. Scabini, Wesley N. Gonçalves and Amaury A. Castro Jr.. Texture Analysis by Bag-Of-Visual-Words of Complex Networks
P07	146	Daniela P. L. Ferreira, Célia A. Z. Barcelos and André R. Backes. Bregman Divergence Applied to Hierarchical Segmentation Problems
P07	171	Addson Costa and Bruno Carvalho. SALSA - A Simple Automatic Lung Segmentation Algorithm
P07	52	Juan Manuel Núñez. Segmentation of Urban Impervious Surface Using Cellular Neural Networks
P08	36	Alfredo Muñoz-Briseño, Andrés Gago-Alonso and José Hernández-Palancar. Fingerprint Matching Using a Geometric Subgraph Mining Approach
P08	41	Diego Bertolini, Luiz S. Oliveira and Robert Sabourin. Improving Writer Identification Through Writer Selection
P08	66	J. Matías Di Martino, Alicia Fernández and José Ferrari. One-shot 3D-gradient method applied to Face Recognition.
P08	75	Yasser Chacón-Cabrera, Man Zhang, Eduardo Garea-Llano and Zhenan Sun. Iris Texture Description using Ordinal Co-occurrence Matrix Features
P08	123	Oswaldo Andrés Pérez García. Confounding Factors in Keystroke Dynamics
P08	165	Eduardo Luz and David Menotti. Denoising Autoencoder for Iris Recognition in Noncooperative Environments
P08	155	Katy Castillo-Rosado and José Hernández-Palancar. A New Ridge-Features-Based Method for Fingerprint Image Quality Assessment
P08	40	Jadisha Cornejo, Helio Pedrini and Francisco Florez-Revuelta. Facial Expression Recognition with Occlusions based on Geometric Representation
P08	129	Lucas Daniel Terissi, Gonzalo Sad, Juan Carlos Gomez and Marianela Parodi. Audio-Visual Speech Recognition scheme based on Wavelets and Random Forests classification
P08	136	Fily M. Grisales Franco, Francisco Vargas, German Castellanos Dominguez, Álvaro Ángel Orozco Gutiérrez and Mauricio Alvarez. Fall detection algorithm based on thresholds and residual events