

13th Iberoamerican Congress on Pattern Recognition

Programme

Havana, Cuba
September 09th - 12th, 2008
Havana's International Convention Center



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Welcome Message

Welcome to Cuba, welcome to the CIARP 2008!

On behalf of the Organizing Committee, it is a pleasure to welcome you all to the 13th Iberoamerican Congress on Pattern Recognition (CIARP 2008, by its acronym in Spanish), here at the Havana International Convention Center. CIARP is a series of pioneer congresses on pattern recognition and related areas in the community of Iberoamerican countries, which was extended to other countries since 2003.

Endorsed by the International Association for Pattern Recognition (IAPR) and proudly hosted by the Cuban Association for Pattern Recognition (ACRP) and the Advanced Technologies Applications Center (CENATAV), this conference attracted participants from 34 countries, 8 of them from Ibero-America, who submitted a total of 182 papers. After a serious reviewing process in which all the submissions were double-blind reviewed by at least two prestigious reviewers, 93 papers by 180 authors from 29 countries were accepted, all of them with a scientific quality above overall mean rating. This process was carried out by 112 Program Committee members with the help of 53 other reviewers from 27 countries.

This year the conference has three new characteristics: CIARP 2008 will be a single track conference in which 27 of the papers will be orally presented and the remaining 66 presented as posters with short poster teasers. It is important to say that the classification in oral or poster paper does not signify at all a quality grading.

In addition, for the first time in these conferences, an IAPR-CIARP award will be given to the author(s) of the best paper accepted and presented at CIARP 2008. The aim of this award is to acknowledge and encourage excellence, originality, and innovativeness of new models,

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methods, and techniques with an outstanding theoretical contribution and practical application to the field of pattern recognition and/or data mining. This selection will be accomplished by a committee integrated by the prestigious professors Josef Kittler, Gabriella Sanniti di Baja, Karl Tombre, Michael Berry, and Alberto Del Bimbo.

On the other hand, to enhance the visibility of the best submissions and to stimulate further good scientific papers, this year, after the discussions during the conference, we will invite authors of the best papers to prepare extended versions for special issues of the prestigious journals Pattern Recognition and Pattern Recognition Letters. This selection will be the responsibility of professors Walter Kropatsch and José Ruiz-Shulcloper.

CIARP 2008 also benefited from the scientific contributions of the invited speakers, the well-known professors Gabriella Sanniti di Baja, Karl Tombre, and Michael Berry, papers of which appear in these proceedings. Furthermore, together with the prestigious professor Xiaoyi Jiang, they will give four attractive and interesting tutorials about "Representation and Analysis of 3D Digital Objects", "Graphics Recognition", "The Art and Science of Text Mining", and "Processing and Applications of 3D Range Images: Fundamentals and New", respectively. We owe them an immense gratitude for their contribution to enhance the scientific quality of this conference.

We wish to inform you that in the framework of this conference, the annual meeting of the Steering Committee of CIARP will be held with the participation of representatives of the national associations for pattern recognition from Spain, Portugal, Mexico, Chile, Brazil, and Cuba. This time we will also have the presence of representatives from new future associations of Colombia and Argentina.

We wish to give a heartfelt acknowledgment to the members of the Local Committee for their unflagging work in the organization of the CIARP 2008 that has allowed an excellent conference and proceedings.

Finally, we wish the participants an intellectually stimulating conference as well as an enjoyable stay in the warm-and-welcoming-to-guests-and-foreigners Havana.

About XIII CIARP

CIARP 2008 was organized by the Cuban Association for Pattern Recognition, endorsed by the International Association for Pattern Recognition (IAPR), and with the sponsorship of the Advanced Technologies Applications Center (CENATAV), MINBAS, Cuba.

CIARP, Congreso Iberoamericano de Reconocimiento de Patrones (Iberoamerican Conference on Pattern Recognition) is the current name of a conference that was firstly organized in Havana, Cuba, in January 23-28, 1995, with the name I Taller Iberoamericano de Reconocimiento de Patrones (TIARP'95).

Since its beginning, the aim of the congress was the presentation of on going research in mathematical methods in pattern recognition, computer vision, image analysis, and speech recognition, as well as the applications of these techniques in areas related to robotics, industry, health, entertainment, space exploration, telecommunications, data mining, document analysis, natural language processing and recognition, and the like. Moreover, it has always been a scientific research forum for experience exchanging, sharing of new knowledge and increasing the cooperation between research groups in pattern recognition and related areas.

CIARP is a series of pioneer congresses on pattern recognition in the community of Spanish speaking countries of America, whose forum has been extended to other countries since 2003.

Congress Proceedings

- LNCS 5197 Progress in Pattern Recognition, Image Analysis and Applications- CIARP 2008
- LNCS 4756 Progress in Pattern Recognition, Image Analysis and Applications- CIARP 2007
- LNCS 4225 Progress in Pattern Recognition, Image Analysis and Applications - CIARP 2006
- LNCS 3773 Progress in Pattern Recognition, Image Analysis and Applications - CIARP 2005
- LNCS 3287 Progress in Pattern Recognition, Image Analysis and Applications - CIARP 2004
- LNCS 2905 Progress in Pattern Recognition, Speech and Image Analysis - CIARP 2003

	VENUE	ACCEPTANCE RATE	COUNTRIES
CIARP'2008	CUBA	93/182 (LNCS)	34
CIARP'2007	CHILE	97/200 (LNCS)	36
CIARP'2006	MEXICO	99/239 (LNCS)	36
CIARP'2005	CUBA	107/209 (LNCS)	29
CIARP'2004	MEXICO	87/158 (LNCS)	18
CIARP'2003	CUBA	83/140 (LNCS)	19
CIARP'2002	MEXICO	39	8
SIARP'2001	BRAZIL	-	-
SIARP'2000	PORTUGAL	68	-
SIARP'1999	CUBA	60/75	10
TIARP'1998	MEXICO	43/52	10
TIARP'1997	CUBA	41/55	5
TIARP'1995	CUBA	18	3

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Karl Tombre. Institut National Polytechnique de Lorraine, Director of
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Michael W. Berry. Dept. Head of Computer Science, University of
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Sponsoring Institutions

- Advanced Technologies Applications Center (CENATAV)
- International Association for Pattern Recognition (IAPR)
- Cuban Association for Pattern Recognition (ACRP)
- Cuban Society for Mathematics and Computer Sciences (SCMC)
- Chilean Association for Pattern Recognition (AChiRP)
- Mexican Association for Computer Vision, Neural Computing and Robotics (MACVNR)
- Special Interest Group of the Brazilian Computer Society (SIGPR-SBC)
- Spanish Association for Pattern Recognition and Image Analysis (AERFAI)
- Portuguese Association for Pattern Recognition (APRP)

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Topics Of Interests

- Artificial Intelligence Techniques in PR
- Bioinformatics
- Clustering
- Computer Vision
- Data Mining
- DB, Knowledge Bases and Linguistic Tools for PR
- Discrete Geometry
- Document Processing and Recognition
- Fuzzy and Hybrid Techniques in PR
- Image Coding, Processing and Analysis
- Kernel Machines
- Logical Combinatorial Pattern Recognition
- Mathematical Morphology
- Mathematical Theory of Pattern Recognition
- Natural Language Processing and Recognition
- Neural Networks for Pattern Recognition
- Parallel and Distributed Pattern Recognition
- Pattern Recognition Principles
- Robotics & Remote Sensing Applications of PR
- Shape and Texture Analysis
- Signal Processing and Analysis
- Special Hardware Architectures
- Statistical Pattern Recognition
- Syntactical and Structural Pattern Recognition
- Voice and Speech Recognition

General Programme

	Sept 9th		Sept 10th		Sept 11th		Sept 12th	
	ROOM 3	ROOM 4	ROOM 3	ROOM 3	ROOM 3	ROOM 3	ROOM 3	ROOM 3
8:00-8:45	Registration	Registration	Registration		Registration		Registration	
8:45-9:00			Welcome Message					
9:00-10:00			Keynote 1					
10:00-11:00	Tutorial 1	Tutorial 2		Paper Presentation	Paper Presentation		Paper Presentation	
11:00-12:00								
12:00-12:30								
12:30-13:00	Lunch	Lunch		Lunch	Lunch		Lunch	
13:00-14:30								
14:30-15:00								
15:00-16:00	Tutorial 3	Tutorial 4		Paper Presentation	Keynote 2		Paper Presentation	
16:00-17:00					Paper Presentation			
17:00-18:00								Keynote 3
18:00-19:00	Cultural Programme		Cultural Programme		Steering Committee Meeting		CIARP Final Meeting	
19:00-20:00							Conference Dinner	
21:00-22:00								
22:00-23:00								

Tuesday Sept 9th, Tutorials	
8:00-8:45	Registration Room 4
9:00-11:00	<p style="text-align: center;">Tutorial 1: "Discrete methods for Representation and analysis of 3D digital objects" <i>Gabriella Sanniti di Baja</i></p> <p style="text-align: center;">Tutorial 2: "The Art and Science of Text Mining" <i>Michael W. Berry</i></p>
11:00-11:20	Coffee Break
11:20-12:30	<p style="text-align: center;">Tutorial 1: "Discrete methods for Representation and analysis of 3D digital objects" <i>Gabriella Sanniti di Baja</i></p> <p style="text-align: center;">Tutorial 2: "The Art and Science of Text Mining" <i>Michael W. Berry</i></p>
12:30-14:30	Lunch
14:30-16:00	<p style="text-align: center;">Tutorial 3: "Graphic Recognition" <i>Karl Tombre</i></p> <p style="text-align: center;">Tutorial 4: "Processing and Applications of 3D Range Images: Fundamentals and New Developments" <i>Xiaoyi Jiang</i></p>
16:00-16:20	Coffee Break
16:20-18:00	<p style="text-align: center;">Tutorial 3: "Graphic Recognition" <i>Karl Tombre</i></p> <p style="text-align: center;">Tutorial 4: "Processing and Applications of 3D Range Images: Fundamentals and New Developments" <i>Xiaoyi Jiang</i></p>

Wednesday Sept 10th, Conference	
8:00-8:45	Registration
	Room 3
9:00-10:00	Keynote 1: "On Media Representations" <i>Gabriella Sanniti di Baja</i>
10:00-10:25	Plenary Short Oral Presentation 1
	<p>Signal Analysis for Characterization and Filtering I</p> <p>Paper 48: <i>Computational Model for Aircraft's Takeoffs Pattern Recognition</i>. Arturo Rojo, Luis Pastor Sánchez Fernández.</p> <p>Paper 122: <i>Offline Signature Verification Using Local Interest Points and Descriptors</i>. Javier Ruiz-del-Solar, Chirst Devia, Patricio Loncomilla, Felipe Concha.</p> <p>Paper 84: <i>Adaptive Generalized Vector Median Filter</i>. Bogdan Smolka.</p> <p>Paper 44: <i>Correlation Filters for Pattern Recognition Using a Noisy Reference</i>. Pablo Mario Aguilar-González, Vitaly Kober.</p> <p>Paper 107: <i>Extended Recursive Filtering Estimation of Detector Offset Nonuniformity in Infrared Imaging Systems</i>. Cesar San Martin, Jorge Pezoa, Sergio Torres, Diana Gutierrez.</p> <p>Paper 129: <i>Vector Median M-Type L Filter to Process Multichannel Images</i>. Antonio Toledo-Lopez, Francisco Javier Gallegos-Funes, Volodymyr Ponomaryov.</p> <p>Paper 159: <i>Optimal Wavelet Filters Selection for Ultrasound and Mammography Compression</i>. Volodymyr Ponomaryov, Jose Luis Sanchez.</p> <p>Paper 77: <i>Single Sound Source SLAM</i>. Rodrigo Munguía, Antoni Grau.</p> <p>Paper 150: <i>Selection of the Best Wavelet Packet Nodes Based on Mutual Information for Speaker Identification</i>. Rafael Fernández, Ana Montalvo, José Ramón Calvo de Lara, Gabriel Hernandez.</p>

	<p>Analysis of Shape and Texture I</p> <p>Paper 161: <i>The Hermite Transform: An Alternative Image Representation Model for Iris Recognition</i>. Alfonso Estudillo-Romero, Boris Escalante Ramírez.</p> <p>Paper 8: <i>Measuring Shape Circularity</i>. Jovisa Zunic, Kaoru Hirota</p> <p>Paper 9: <i>Measuring the Related Properties of Linearity and Elongation of Point Sets</i>. Milos Stojmenovic, Amiya Nayak.</p> <p>Analysis of Speech and Language</p> <p>Paper 64: <i>Evaluation of Lineal Relation between Shifted Delta Cepstral Features and Prosodic Features in Speaker Verification</i>. José Ramón Calvo de Lara, Dayana Ribas, Rafael Fernández, Gabriel Hernández Sierra.</p> <p>Paper 140: <i>Using Dynamic Time Warping of T0 Contours in the Evaluation of Cycle-to-Cycle Pitch Detection Algorithms</i>. Carlos Ferrer, Diana Torres, María Esperanza Hernández-Díaz.</p> <p>Paper 126: <i>Comparative Study of Several Phonotactic-Based Approaches to Spanish-Basque Language Identification</i>. Víctor Guijarrubia, M. Inés Torres.</p> <p>Data Mining</p> <p>Paper 121: <i>Mining Frequent Similar Patterns on Mixed Data</i>. Ansel Y. Rodríguez González, J. Francisco Martínez-Trinidad, J. Ariel Carrasco-Ochoa, Jose Ruiz-Shulcloper.</p> <p>Paper 145: <i>A Novel Incremental Algorithm for Frequent Itemsets Mining in Dynamic Datasets</i>. Raudel Hernández León, José Hernández Palancar, J. Ariel Carrasco-Ochoa, José Fco. Martínez-Trinidad.</p> <p>Paper 59: <i>Prototype Selection Via Prototype Relevance</i>. J. Arturo Olvera-Lopez, J. Ariel Carrasco-Ochoa, J. Francisco Martínez-Trinidad.</p>
10:25-10:50	Coffee Break
10:50-12:00	Paper Discussion 1 (See page 28)

12:00-13:00	Plenary Oral Session "Clustering of Images and Documents"
12:00-12:20	Paper 103 : <i>A New Document Clustering Algorithm for Topic Discovering and Labeling</i> . Henry Anaya-Sánchez, Aurora Pons-Porrata, Rafael Berlanga.
12:20-12:40	Paper 146 : <i>Unsupervised Learning of Saliency Concepts for Natural Image Classification and Retrieval</i> . Alessandro Perina, Marco Cristani, Vittorio Murino.
12:40-13:00	Paper 111 : <i>How Do Superpixels Affect Image Segmentation?</i> Allan Hanbury.
13:00-15:00	Lunch
15:00-15:25	Plenary Short Oral Presentation 2
	<p>Clustering</p> <p>Paper 42: <i>Hierarchical Star Clustering Algorithm for Dynamic Document Collections</i>. Reynaldo Gil-García, Aurora Pons-Porrata.</p> <p>Paper 174: <i>Weighted Cluster Ensemble Using a Kernel Consensus Function</i>. Sandro Vega, Jyrko Correa, Jose Ruiz-Shulcloper.</p> <p>Paper 25: <i>A Thorough Analysis of the Suppressed Fuzzy C-Means Algorithm</i>. Laszlo Szilagyi, Sandor Szilagyi, Zoltan Benyo.</p> <p>Paper 26: <i>Building and Assessing a Constrained Clustering Hierarchical Algorithm</i>. Eduardo Concepcion, Yosu Yurramendi.</p> <p>Paper 86: <i>Cluster Stability Assessment Based on Theoretic Information Measures</i>. Damaris Pascual, Filiberto Pla, J. Salvador Sanchez.</p> <p>Paper 130: <i>Differential Betweenness in Complex Networks Clustering</i>. Alberto Ochoa, Leticia Arco.</p> <p>Paper 105: <i>GeCiM: A Novel Generalized Approach to C-Means Clustering</i>. Laszlo Szilagyi, David Iclanzan, Sandor Szilagyi, Dan Dumitrescu.</p>

	<p>Statistical Pattern Recognition I</p> <p>Paper 57: <i>Modelling of Behavioural Patterns for Abnormality Detection in the Context of Lifestyle Reassurance</i>. Fabien Cardinaux, Simon Brownsell, Mark Hawley, David Bradley.</p> <p>Paper 71: <i>On the Complementarity of Face Parts for Gender Recognition</i>. Yasmina Andreu Cabedo, Ramon A. Mollineda.</p> <p>Paper 20: <i>Learning and Forgetting with Local Information of New Objects</i>. Fernando Vázquez, Filiberto Pla Bañon, Jose Salvador Sanchez.</p> <p>Paper 90: <i>An Enhanced Accessory Pathway Localization Method for Efficient Treatment of Wolff-Parkinson-White Syndrome</i>. Sandor Szilagyi, Laszlo Szilagyi, Levente Gorog, Constantin Luca, Dragos Cozma, Gabriel Ivanica, Zoltan Benyo.</p> <p>Paper 128: <i>Functional Learning of Kernels for Information Fusion Purposes</i>. Alberto Muñoz, Javier Gonzalez.</p> <p>Paper 75: <i>A Correlation-Based Distance Function for Nearest Neighbor Classification</i>. Yanet Rodríguez, Benard De Baets, Maria M. Garcia Lorenzo, Carlos Morell, Ricardo Grau.</p> <p>Paper 15: <i>On Optimizing Subclass Discriminant Analysis Using a Pre-clustering Technique</i>. Sang-Woon Kim.</p> <p>Paper 19: <i>Chernoff-Based Multi-class Pairwise Linear Dimensionality Reduction</i>. Luis Rueda, Claudio Henriquez, John Oommen.</p> <p>Paper 81: <i>On Using Dimensionality Reduction Schemes to Optimize Dissimilarity-Based Classifiers</i>. Sang-Woon Kim, Jian Gao.</p>
15:25-16:35	Paper Discussion 2 (See page 29)
16:35-17:00	Coffee Break
17:00-18:00	Plenary Oral Session "Statistical Pattern Recognition II"
17:00-17:20	Paper 98: <i>Structural Construction for On-Line Mathematical Formulae Recognition</i> . Daniel Prusa, Vaclav Hlavac
17:20-17:40	Paper 89: <i>Radar Recognition through Statistical Classification of Cellular Emission in the Moment Space</i> . Nelson Chávez, Angel L. González
17:40-18:00	Paper 56: <i>Representing Functional Data Using Support Vector Machines</i> . Javier Gonzalez, Alberto Muñoz

Thursday Sept 11th, Conference	
8:00-8:45	Registration
	Room 3
9:00-10:00	Plenary Oral Session "Classification and Description of Objects"
9:00-9:20	Paper 7: <i>Classifier Ensemble Generation for the Majority Vote Rule</i> . Carlos Orrite, Mario Rodriguez, Michael Fairhurst.
9:20-9:40	Paper 50: <i>Feature Selection through Dynamic Mesh Optimization</i> . Rafael Falcon, Rafael Bello, Amilkar Puris.
9:40-10:00	Paper 104: <i>Integral Operators for Computing Homology Generators at Any Dimension</i> . Rocio Gonzalez-Diaz, Maria Jose Jimenez, Belen Medrano, Helena Molina-Abril, Pedro Real Jurado.
10:00-10:25	Plenary Short Oral Presentation 3
	<p>Classification and Edition</p> <p>Paper 17: <i>Fast k Most Similar Neighbor Classifier for Mixed Data Based on a Tree Structure and Approximating-Eliminating</i>. Selene Hernández Rodríguez, Jesus Ariel Carrasco-Ochoa, José Fco. Martínez-Trinidad.</p> <p>Paper 113: <i>Identification of More Characteristic Dynamic Patterns in a WWTP by CIBR×E</i>. Karina Gibert, Gustavo Rodriguez.</p> <p>Paper 179: <i>Selecting Features and Objects for Mixed and Incomplete Data</i>. Yenny Villuendas-Rey, Milton García-Borroto, Jose Ruiz-Shulcloper.</p> <p>Geometric Image Analysis</p> <p>Paper 67: <i>Supervised Isomap with Dissimilarity Measures in Embedding Learning</i>. Bernardete Ribeiro.</p> <p>Paper 120: <i>A New Approach to Analyse Neighbourhood Relations in 2D Polygonal Networks</i>. Lourenço Bandeira, Pedro Pina, José Saraiva.</p> <p>Paper 38: <i>Subdivision Curves on Surfaces and Applications</i>. Dimas Martinez Morera, Luiz Velho, Paulo Cezar Pinto Carvalho.</p> <p>Paper 97: <i>Multiscale Morphological Image Simplification</i>. Leyza B. Dorini, Neucimar J. Leite.</p>

	<p>Paper 63: <i>Calculating the Number of Tunnels</i>. Fajie Li, Reinhard Klette.</p> <p>Neural Networks</p> <p>Paper 171: <i>Self-Organizing Neuro-Fuzzy Inference System</i>. Héctor Allende-Cid, Alejandro Veloz, Rodrigo Salas, Steren Chabert, Héctor Allende.</p> <p>Paper 99: <i>Handwritten Digit Classification Based on Alpha-Beta Associative Model</i>. Luis Octavio Lopez, Cornelio Yáñez-Márquez, Rolando Flores-Carapia, Oscar Camacho Nieto.</p> <p>Paper 110: <i>Thresholded Learning Matrix for Efficient Pattern Recalling</i>. Mario Aldape-Perez, Israel Román-Godínez, Oscar Camacho Nieto.</p> <p>Paper 29: <i>Computer Aided Diagnosis System to Detect Breast Cancer Pathological Lesions</i>. Yosvany López Alvarez, Andra Novoa Velazquez, Miguel Angel Guevara López, Nicolás Quintana Bernabé, Augusto Silva.</p> <p>Paper 164: <i>Musical Style Identification with n-Grams and Neural Networks</i>. Pedro Cruz, Maria Jose Castro Bleda.</p> <p>Paper 95: <i>Inter-turn Short Circuit and Unbalanced Voltage Pattern Recognition for Three-Phase Induction Motors</i>. Rodrigo Lopez Cardenas, Luis Pastor Sánchez Fernández, Angel Costa.</p> <p>Paper 60: <i>An Empirical Study for the Multi-class Imbalance Problem with Neural Networks</i>. Roberto Alejo, José Martínez Sotoca, Gustavo Casañ.</p> <p>Paper 155: <i>A Fast Search Algorithm for Vector Quantization Based on Associative Memories</i>. Enrique Guzman, Oleksiy Pogrebnyak.</p> <p>Paper 172: <i>Alpha-Beta Weightless Neural Networks</i>. Amadeo Arguelles, Itzamá López-Yáñez, Mario Aldape-Perez, Napoleón Conde-Gaxiola.</p>
10:25-10:50	Coffee Break
10:50-12:00	Paper Discussion 3 (See page 30)
12:00-13:00	<p>Keynote 2: "Pattern Recognition Methods for Querying and Browsing Technical Documentation" <i>Karl Tombre</i></p>
13:00-15:00	Lunch

15:00-15:25	Plenary Short Oral Presentation 4
	<p>Computer Vision</p> <p>Paper 170: <i>Fingerprint Verification Using Local Interest Points and Descriptors</i>. Javier Ruiz-del-Solar, Patricio Loncomilla, Chirst Devia.</p> <p>Paper 180: <i>Gait Recognition Based on Silhouette, Contour and Classifier Ensembles</i>. Miriam Romero, Jesus Ariel Carrasco-Ochoa, José Fco. Martínez-Trinidad.</p> <p>Paper 152: <i>A New Combination of Local Appearance Based Methods for Face Recognition under Varying Lighting Conditions</i>. Heydi Mendez, Edel Garcia, Yadira Condes.</p> <p>Paper 167: <i>Best-Shot Selection for Video Face Recognition Using FPGA</i>. Leonardo Chang Fernández, Ivis Rodés Alfonso, Heydi Mendez, Ernesto del Toro Hernández.</p> <p>Paper 58: <i>Ensemble Approaches to Facial Action Unit Classification</i>. Terry Windeatt, Kaushala Dias.</p> <p>Paper 119: <i>Multiclass Adaboost and Coupled Classifiers for Object Detection</i>. Rodrigo Verschae, Javier Ruiz-del-Solar.</p> <p>Paper 123: <i>Towards an Illumination-Based 3D Active Appearance Model for Fast Face Alignment</i>. Salvador Ayala-Raggi, Leopoldo Altamirano Robles, Janeth Cruz-Enriquez.</p> <p>Paper 109: <i>Delineating Homology Generators in Graph Pyramids</i>. Mabel Iglesias, Adrian Ion, Walter Kropatsch, Edel Garcia.</p> <p>Paper 70: <i>Contour Tracking When Two Gray-Level Discontinuities Are Close to Each Other</i>. Marcello Demi, Elisabetta Bianchini, Francesco Faita, Vincenzo Gemignani.</p> <p>Paper 55: <i>Pose Estimation for Sensors Which Capture Cylindric Panoramas</i>. Fay Huang, Reinhard Klette, Yun-Hao Xie.</p> <p>Paper 153: <i>Recursive Shape and Pose Determination Using Deformable Model</i>. Kevin Bailly, Maurice Milgram.</p> <p>Paper 49: <i>Lip-Reading Technique Using Spatio-Temporal Templates and Support Vector Machines</i>. Wai Chee Yau, Dinesh Kant Kumar, Tharangini Chinnadurai.</p> <p>Paper 137: <i>Applying SIFT Descriptors to Stellar Image Matching</i>. Javier Ruiz-del-Solar, Patricio Loncomilla, Pablo Zorzi.</p>

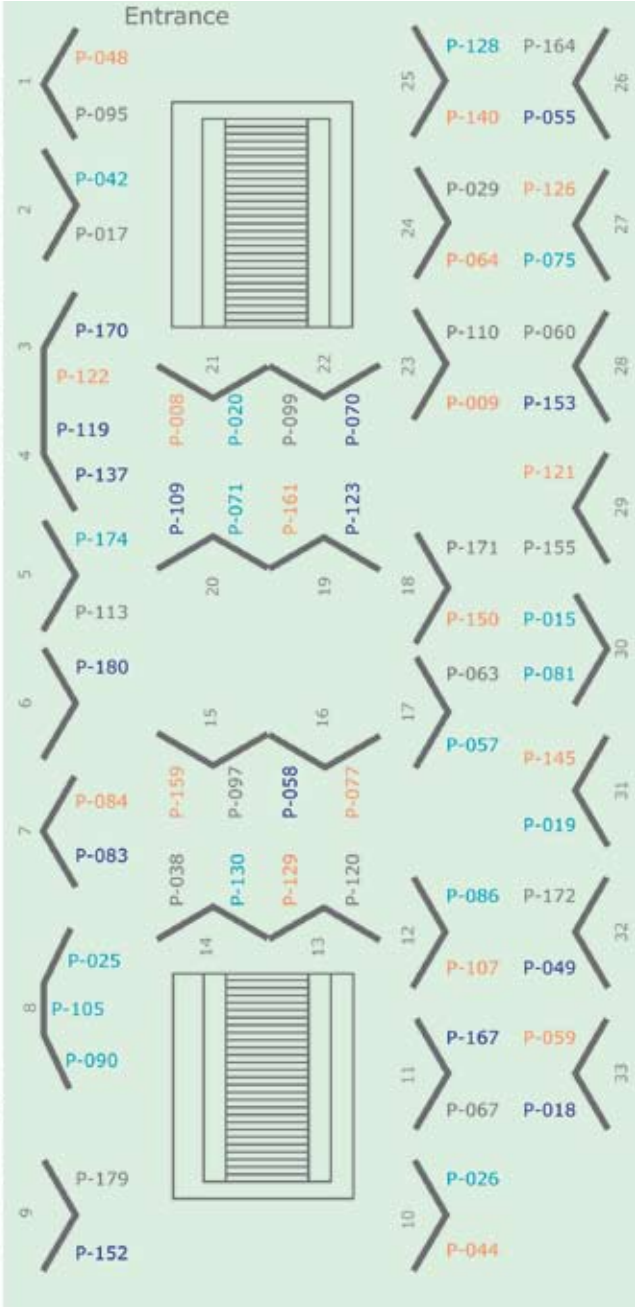
	<p>Image Coding</p> <p>Paper 83: <i>Digital Image Colorization Based on Probabilistic Distance Transform</i>. Przemyslaw Lagodzinski, Bogdan Smolka.</p> <p>Paper 18: <i>A Matrix-Based Secret Sharing Scheme for Images</i>. Angel Martin del Rey.</p>
15:25-16:35	Paper Discussion 4 (See page 31)
16:35-17:00	Coffee Break
17:00-18:00	Plenary Oral Session "Associative Memories and Neural Networks"
17:00-17:20	<p>Paper 151: <i>A Dialog Management Methodology Based on Neural Networks and Its Application to Different Domains</i>. David Griol, Lluís F. Hurtado, Encarna Segarra, Emilio Sanchis.</p>
17:20-17:40	<p>Paper 88: <i>Analysis and Prediction of Air Quality Data with the Gamma Classifier</i>. Cornelio Yáñez-Márquez, Itzamá López-Yáñez, Guadalupe de la Luz Sáenz Morales.</p>
17:40-18:00	<p>Paper 132: <i>Hetero-Associative Memories for Voice Signal and Image Processing</i>. Roberto Antonio Vazquez, Humberto Sossa Azuela.</p>
18:00-23:00	Steering Committee Meeting

Friday Sept 12th, Conference	
8:00-8:45	Registration
	Room 3
9:00-10:00	Plenary Oral Session "Analysis of Shape and Texture II"
9:00-9:20	Paper 112 : <i>Perceptually Motivated Shape Evolution with Shape-Preserving Property</i> . Sergej Lewin, Xiaoyi Jiang, Achim Clausung.
9:20-9:40	Paper 12 : <i>Probabilistic Discrete Mixtures Colour Texture Models</i> . Michal Haindl, Vojtech Havlicek, Jiri Grim.
9:40-10:00	Paper 33 : <i>Comparison of Pixel and Subpixel Retinal Vessel Tree Segmentation Using a Deformable Contour Model</i> . Lucia Espona, María J. Carreira, Manuel G. Penedo, Marcos Ortega.
10:00-11:00	Plenary Oral Session "Signal Analysis for Characterization and Filtering II"
10:00-10:20	Paper 116 : <i>Joint Freehand Ultrasound and Endoscopic Reconstruction of Brain Tumors</i> . Ruben Machucho Cadena, Sergio De La Cruz Rodrigues, Eduardo Bayro Corrochano.
10:20-10:40	Paper 85 : <i>Peer Group Filter for Impulsive Noise Removal in Color Images</i> . Bogdan Smolka.
10:40-11:00	Paper 16 : <i>Spectral Characterization of Volcanic Earthquakes at Nevado del Ruiz Volcano Using Spectral Band Selection/Extraction Techniques</i> . Mauricio Orozco Alzate, Marina Skurichina, Robert P. W. Duin.
11:00-11:20	Coffee Break
11:20-12:20	Plenary Oral Session "Interpolation and Video Tracking"
11:20-11:40	Paper 76 : <i>Detection and Tracking of Coronal Mass Ejections</i> . Norberto Goussies, Marta Mejail, Julio Jacobo, Guillermo Stenborg.
11:40-12:00	Paper 3 : <i>Constrained Interpolation with Implicit Plane Cubic A-Splines</i> . Sofia Behar-Jequin, Jorge Estrada-Sarlabous, Victoria Hernandez-Mederos.
12:00-12:20	Paper 117 : <i>Video Object Segmentation Using Graphs</i> . Salvador Buenaventura López Mármol, Nicole Maria Artner, Adrian Ion, Walter Kropatsch, Csaba Beleznai.

12:20-13:00	Plenary Oral Session "Images Analysis"
12:20-12:40	Paper 43 : <i>Joint Coding of Multiple H.264 Video Programs</i> . Luis Teixeira.
12:40-13:00	Paper 100 : <i>A Simple and Effective Method of Color Image Quantization</i> . Sergio Marquez-de-Silva, Edgardo Felipe.
13:00-15:00	Lunch
15:00-15:40	Plenary Oral Session "Music and Speech Analysis"
15:00-15:20	Paper 175 : <i>Automatic Polyphonic Music Composition Using the EMILE and ABL Grammar Inductors</i> . José David Ortega Pacheco, Hiram Calvo.
15:20-15:40	Paper 124 : <i>Reconstruction of Dysphonic Speech by MELP</i> . İrem Turkmen, Elif Karşlıgil.
15:40-16:20	Plenary Oral Session "Classifier Combination and Document Filtering"
15:40-16:00	Paper 22 : <i>Analyzing Classifier Hierarchy Multiclassifier Learning</i> . Jose Maria Martinez-Otzeta, Basilio Sierra, Elena Lazkano, Ekaitz Jauregi, Yosu Yurramendi.
16:00-16:20	Paper 139 : <i>Using the $\alpha\beta$-Neighborhood for Adaptive Document Filtering</i> . Adrian Fonseca, Reynaldo Gil-García, Aurora Pons.
16:20-16:50	Coffee Break
17:00-18:00	Keynote 3: "Scenario Discovery Using Nonnegative Tensor Factorization" <i>Michael W. Berry</i>
18:00-19:00	CIARP Meeting
19:00-23:00	Conference Dinner

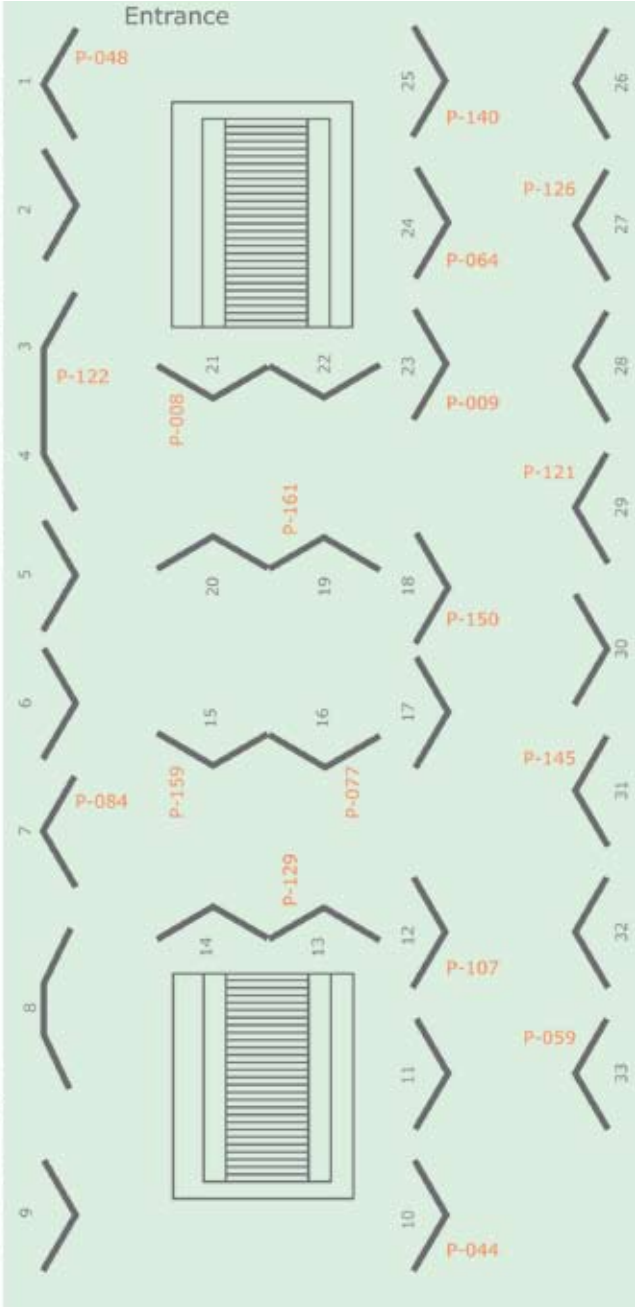
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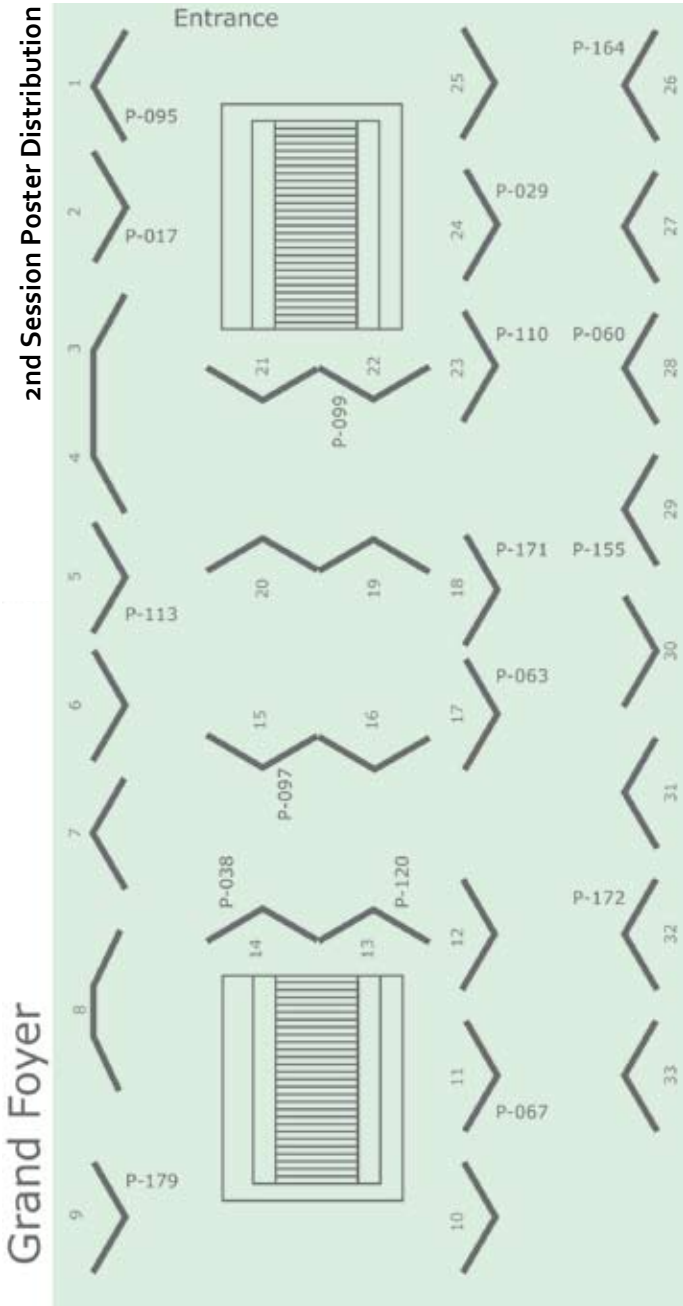
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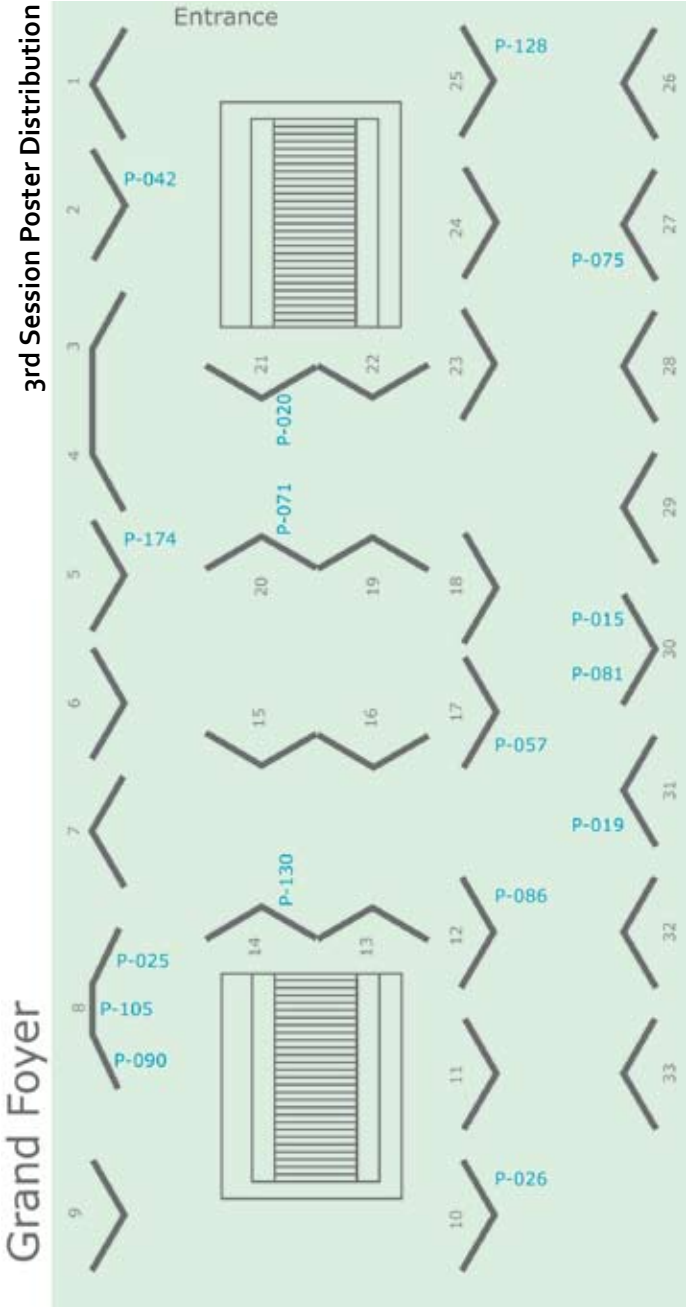


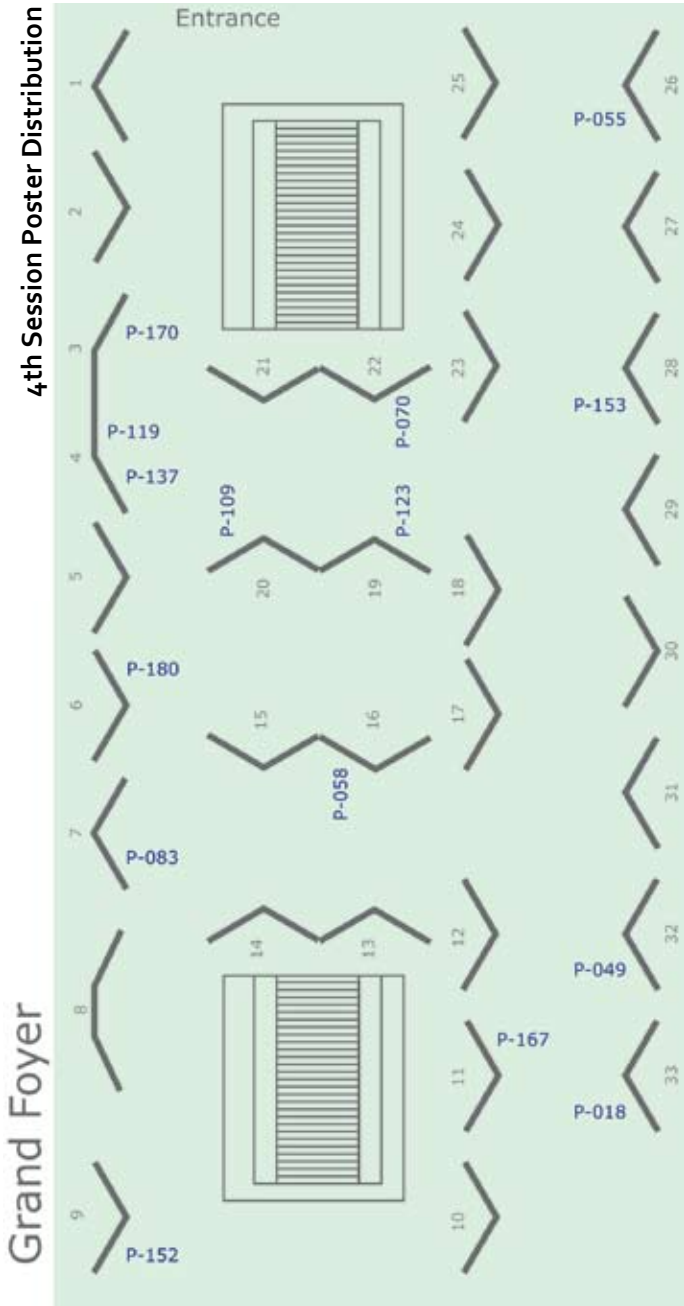
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1st Session Poster Distribution



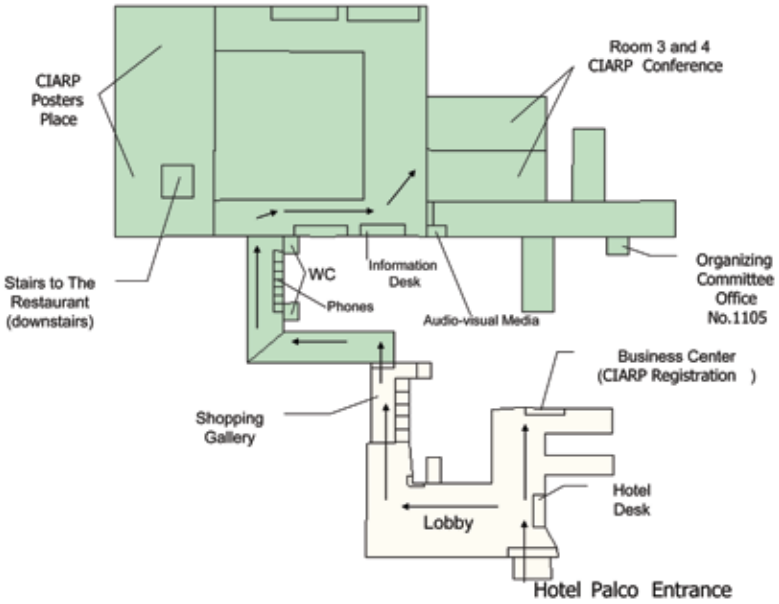






Sketch Conference Venue

First floor



Upper floor

