

CIARP 2007 - PROGRAM



12th Iberoamerican Congress on Pattern Recognition
November 13-16, 2007
UTFSM / Hotel Marina del Rey
(Viña del Mar/Valparaíso, Chile)



Tuesday, 13th November 2007
Universidad Técnica Federico Santa María, Campus Valparaíso
AVENIDA ESPAÑA 1680, VALPARAISO

08:30 - 09:30	Time Registration		
	Salón de Honor	Auditorio Principal	Sala 1
09:30 - 11:00	Tutorial 1 (Anil K. Jain)	Tutorial 2 (Maria Petrou)	Tutorial 3 (Sorin Draghici)
	Biometric recognition	Reverse engineering the human vision system: some techniques in image processing inspired by the functionality of the human vision system	Applications of machine learning and pattern recognition in bioinformatics
11:00 - 11:30	Coffee Break		
11:30 - 13:00		Tutorial 2 (Maria Petrou)	Tutorial 3 (Sorin Draghici)
		Reverse engineering the human vision system: some techniques in image processing inspired by the functionality of the human vision system	Applications of machine learning and pattern recognition in bioinformatics
13:30	Free Time		

Wednesday, 14th November 2007
Hotel Marina del Rey
AVENIDA ECUADOR 299, VIÑA DEL MAR

08:30 - 09:30	Time Registration
Salón Linda Andreani	
09:30 - 10:00	Welcome Message
10:00 - 11:00	Keynote 1: Biometric Recognition: Overview and Recent Advances <i>Anil K. Jain</i>
11:00 - 11:20	Coffee Break

	Salón Linda Andreani	Salón Silvio Arata 1	Salón Silvio Arata 2
	We-1	We-2	We-3
11:20 - 11:40	74. Oliver van Kaick and Helio Pedrini. Smooth Image Surface Approximation by Piecewise Cubic Polynomials.	66. Antoine Manzanera. Sigma-Delta background subtraction and the Zipf law	5. Francesc serratoso, Gerard Sanromà and Alberto Sanfeliu A New Algorithm to Compute the Distance between Multi-dimensional Histograms.
11:40 - 12:00	75. Modesto Castrillón and Quoc Vuong. An Analysis of Automatic Gender Classification.	81. César Enrique San Martín Salas and Sergio Neftali Torres. Model-based Correlation Measure for Nonuniformity Gain and Offset Parameters of Infrared Sensors on Focal-Plane-Arrays.	10. Alberto Rosales-Silva, Volodymyr Ponomaryov and Francisco Javier Gallegos-Funes. Fuzzy Vector Directional Filters for Multichannel Image Denoising.
12:00 - 12:20	83. Eduardo Garea, José Luis Gil and Sandro Vega. A Method for Segmentation of Local Illumination Variations and Photometric Normalization in Face Images.	80. Edgar Estupiñan, Paul White and César Enrique San Martín Salas. A Cyclostationary Analysis Applied to Detection and Diagnosis of Faults in Helicopter Gearboxes.	12. Francisco A. Pujol, Higinio Mora, José Luis Sánchez and Antonio Jimeno. EZW-based Image Compression with Omission and Restoration of Wavelet Subbands.
12:20 - 12:40	102. Walter Kropatsch, Adrian Ion and Samuel Pelier. Computing the Eccentricity Transform of a Polygonal Shape.	85. Antoni Grau Yolanda Bolea and Manuel Manzanares. Robust Industrial Machine Sounds Identification based on Frequency Spectrum Analysis.	44. Sergio Escalera, Alicia Fornes, Oriol Pujol, Josep Lladós and Petia Radeva. Multi-class Binary Object Categorization using Blurred Shape Models.
12:40 - 13:00	112. Jorge Scandalariis, Michael Villamizar, Alberto Sanfeliu and Juan Andrade-Cetto. Robust Color Contour Object Detection Invariant to Shadows.	132. Jose Luis Oropeza, Sergio Suarez and Luis Sánchez . Using Adaptive Filter to increase Automatic Speech Recognition rate in a digit corpus.	62. Alvaro Pardo. Video Analysis via Nonlinear Dimensionality Reduction.
13:00 - 13:20	98. Tomás Arredondo, Félix Vásquez, Diego Candell, Liubov Dombrowskaia, Loreine Agullo, Macarena Córdova, Valeria Latorre-Reyes, Felipe Calderón and Michael Seeger. Dynamic Penalty Based GA for Inducing Fuzzy Inference Systems.	195. Gyorgy Varallyay Jr. SSM – A Novel Method to Recognize the Fundamental Frequency in Voice Signals.	76. Anesto del Toro-Almenares, Cosmin Mihai, Iris Vanhamel and Hichem Sahli. Graph Cuts approach to MRF based Linear Feature Extraction in Satellite Image.
13:30 - 15:00	Lunch Marina del Rey Restaurant		

	We-4	We-5	We-6
15:00 - 15:20	<p>114. Sandberg Santos, Dibio Borges and Herman Gomes. An Evaluation of Video Cut Detection Techniques.</p>	<p>84. José Ramón Calvo de Lara, Rafael Fernández and Gabriel Hernández. Channel / Handset Mismatch Evaluation in a Biometric Speaker Verification using Shifted Delta Cepstral Features.</p>	<p>91. Mabel Iglesias, Yilian Bazán and Edel B. Garcia. A Multiple Substructure Matching Algorithm for Fingerprint Verification.</p>
15:20 - 15:40	<p>127. Félix Calderón, Ubaldo Ruiz and Mariano Rivera. Surface--Normal Estimation with Neighborhood Reorganization for 3D Reconstruction.</p>	<p>174. Víctor Guijarrubia and M. Inés Torres. Phone-segments based language identification for Spanish, Basque and English.</p>	<p>141. Octavio Gómez, Eduardo Morales and Jesus González. Image Segmentation using automatic Seeded Region Growing and Instance-based Learning.</p>
15:40 - 16:00	<p>167. Jing Wu, William A. P. Smith and Edwin Hancock A Weighted Principle Geodesic Analysis Method for Gender Classification.</p>	<p>37. Carlos Mello. An Algorithm for Foreground-Background Separation in Low Quality Patrimonial Document Images.</p>	<p>150. Allan Hanbury. Morphological Distinguished Regions.</p>
16:00 - 16:20	<p>170. Simphiwe Mkwelo, Frederick Nicolls and Gerhard de Jager . Range and Intensity Vision for rock-scene segmentation.</p>	<p>65. Ignazio Gallo and Elisabetta Binaghi. Information Extraction and Classification from Free Text for a Price Comparison Service.</p>	<p>136. Noel Pérez, José Valdes, Miguel Angel Guevara, Luis Rodríguez and Juan Molina. Set of methods for spontaneous ICH segmentation and tracking from CT head images.</p>
16:20 - 16:40	Coffee Break		
	We-7	We-8	We-9
16:40 - 17:00	<p>193. Stefan Pszczolkowski and Alvaro Soto. Human Detection in Indoor Environments Using Multiple Visual.</p>	<p>78. José E. Medina-Pagola, Ansel Rodríguez-González and Abdel Hechavarría-Díaz. Formal Distance vs. Association Strength in Text Processing.</p>	<p>93. Guillermo Sánchez-Díaz and Manuel Lazo-Cortés. CT-EXT: An algorithm for computing typical testors set.</p>

17:00 - 17:20	200. Norman Poh, Josef Kittler, Ray Smith and Jose Rafael Tena. A Method for Estimating Performance Over Time, with Applications to Face Biometrics.	116. Pedro Castro, Rui Almeida and João Pinto. Restoration of Double-sided Ancient Music Documents with Bleed-through.	14. Chi-Farn Chen, Min-Hsin Chen and Hsiang-Tsu Li. Fully Automatic and Robust Approach for Remote Sensing Image Registration.
17:20 - 17:40	25. Miguel Angel Medina-Pérez, Milton García-Borroto and José Ruiz-Shulcloper. Object Selection Based on Subclass Error Correcting for ALVOT.	60. Ronei Moraes and Liliane Machado. Multiple Assessment for Multiple Users in Virtual Reality Training Environments.	190. Carlos Lara and Leonardo Romero. Robust Local Localization of a Mobile Robot in Indoor Environments Using Virtual Corners.
18:00 - 19:20	ACHiRP Session		
19:30 - 21:30	Cocktail in Hall		

Thursday, 15th November 2007
Hotel Marina del Rey
AVENIDA ECUADOR 299, VIÑA DEL MAR

Salón Linda Andreani			
09:00 - 10:00	Keynote 2: A System Biology Approach for the Steady-State Analysis of Gene Signaling Networks <i>Sorin Draghici</i>		
10:00 - 10:20	Coffee Break		
	Salón Linda Andreani	Salón Silvio Arata 1	Salón Silvio Arata 2
	Th-1	Th-2	Th-3
10:20 - 10:40	29. Sandra Avila, Leonardo Matos, Cinthia Freitas and João Carvalho. Evaluating a Zoning Mechanism and Class-Modular Architecture for Handwritten Characters Recognition.	110. Alberto Muñoz and Javier González. Joint Diagonalization of Kernels for Information Fusion.	46. Alejandra Pérez-Bonilla and Karina Gibert. Towards automatic generation of conceptual interpretation of clustering.

10:40 - 11:00	50. José A. Moreno-Escobar, Francisco Gallegos-Funes and Volodymyr Ponomaryov. Median M-Type Radial Basis Function Neural Network.	125. Noslen Hernández González, Rolando Biscay and Isneri Talavera. Support Vector Regression Methods for Functional Data.	82. Andrés Gago-Alonso, Aírel Pérez Suárez and José E. Medina-Pagola. ACONS: a new Algorithm for Clustering.
11:00 - 11:20	67. Antonio Garcia, Carlos León, Inigo Monedero and Jorge Roper. A Precise Electrical Disturbance Generator for Neural Network Training with Real Level Output.	4. Javier Moguerza, Alberto Muñoz and Stelios Psarakis. Monitoring Nonlinear Profiles using Support Vector Machines.	95. Arturo Olvera-López, Francisco Martínez-Trinidad and Ariel Carrasco-Ochoa. Mixed Data Object Selection based on Clustering and Border Objects.
11:20 - 11:40	178. Ricardo Barrón, Humberto Sossa Azuela and Benjamín Cruz. A New Algorithm for Training Multi-Layered Morphological Networks.	32. Iván Mejía-Guevara and Angel Kuri-Morales. MP-Polynomial Kernel for Training Support Vector Machines.	166. Ricardo Nanculef, Carlos Valle, Héctor Allende and Claudio Moraga. Bagging with asymmetric costs for misclassified and correctly classified examples.
11:40 - 12:00	34. Aurora Pons-Porrata, Reynaldo Gil-García and Rafael Berlanga-Llavori. Using Typical Testors for Feature Selection in Text Categorization.	151. Sandor Szilagy, Laszlo Szilagy and Zoltan Benyo. Adaptiva ECG Compression Using Support Vector Machine	79. Francesco Biaconi, Antonio Fernández, Elena González and Fernando Ribas. Texture classification through combination of sequential colour texture classifiers
12:00 - 12:20	Coffee Break		
12:20 - 13:20	Keynote 3: Learning in Computer Vision: Some Thoughts Maria Petrou		
13:30 - 15:00	Lunch Marina del Rey Restaurant		
15:00 - 17:00	Steering Committee Session		
20.00 - 22:00	Conference Dinner		

Friday, 16th November 2007
Hotel Marina del Rey

AVENIDA ECUADOR 299, VIÑA DEL MAR

Salón Linda Andreani			
09:00 - 10:00	Keynote 4: A Family of Novel Graph Kernels for Structural Pattern Recognition <i>Horst Bunke</i>		
10:00 - 10:20	Coffee Break		
	Salón Linda Andreani	Salón Silvio Arata 1	Salón Silvio Arata 2
	FR-1	Fr-2	Fr-3
10:20 - 10:40	6. Mauricio Orozco Alzate, Robert P. W. Duin and César German Castellanos Domínguez. Generalizing Dissimilarity Representations Using Feature Lines.	31. Said Mahmoudi and Mohammed Benjelloun. A New Approach for Cervical Vertebrae Segmentation.	27. Igor Bolshakov and Alexander Gelbukh. Distribution-based Semantic Similarity of Words.
10:40 - 11:00	7. Luis Roberto Morales and Guillermo Sánchez. FS-EX Plus: A new algorithm for the calculation of typical FS-Testor set.	40. Gloria Díaz, Fabio González and Eduardo Romero. Automatic Clump Splitting for Cell Quantification in Microscopical Images.	38. Raquel Justo and M. Inés Torres. Segment-based Classes for Language Modeling within the Field of CSR.
11:00 - 11:20	28. Cinthia Freitas, João Carvalho, José Josemar-Oliveira Jr., Simone Aires and Robert Sabourin. Confusion Matrix Disagreement for Multiple Classifiers.	87. Santi Seguí, Laura Igual, Petia Radeva, Carolina Malagelada, Fernando Azpirov and Jordi Vitrià. A Semi-Supervised Learning Method for Motility Disease Diagnostic.	97. Laritza Hernández and José Medina. TextLec: A Novel Segmentation Method by Topic using Lower Windows and Lexical Cohesion.
11:20 - 11:40	57. Vicente Garcia, José Sánchez and Ramón A. Mollineda. An Empirical Study of the Behavior of Classifiers on Imbalanced and Overlapped Data Sets.	113. João Sousa, Aristófanés Silva and Anselmo Cardoso de Paiva. Lung Structures Classification Using 3D Geometric Measurements and SVM.	105. Carla Simões, António Calado, Daniela Braga, Miguel Días and Carlos Teixeira. European Portuguese Accent in Acoustic Models for Non-native English Speakers.
11:40 - 12:00	120. Selene Hernández Rodríguez, Francisco Martínez-Trinidad and Ariel Carrasco-Ochoa. Fast k Most Similar Neighbor Classifier for Mixed Data based on a Tree Structure.	115. Antonio Bravo, Miguel Vera and Rubén Medina. Edge Detection in Ventriculograms using a Support Vector Machine Classifier and Deformable Models.	161. Lluís Hurtado, David Griol, Emilio Sanchis and Encarna Segarra. A Statistical User Simulation Technique for the Improvement of a Spoken Dialog System.
12:00 - 12:20	Coffee Break		

	FR-4	FR-5	FR-6
12.20 - 12:40	<p>176. Jana Novovicova, Petr Somol, Michal Haindl and Pavel Pudil. Conditional Mutual Information based Feature Selection for Classification Task.</p>	<p>121. Yosvany López, Andra Novoa, Miguel Guevara López and Augusto Silva. Breast Cancer Diagnosis Based on a Suitable Combination of Deformable Models and Artificial Neural Networks Techniques.</p>	<p>33. David Marimon and Touradj Ebrahimi. Efficient rotation-discriminative template matching,</p>
12.40 - 13:00	<p>184. Héctor Allende-Cid, Rodrigo Salas, Héctor Allende and Juan Ricardo Nanculef Alegría. Robust Alternating AdaBoost.</p>	<p>128. Gloria Díaz, Fabio González and Eduardo Romero . Infected Cell Identification in Thin Blood Images Based on Color Pixel Classification: Comparison and Analysis.</p>	<p>186. Erika López and Leopoldo Altamirano. Deterministic Component of 2-D Wold Decomposition for Geometry and Texture Descriptors Discovery.</p>
13.00 - 13.20	<p>17. Roberto Vázquez, Humberto Sossa and Beatriz Garro. Face Recognition using some Aspects of the Infant Vision System and Associative Memories.</p>	<p>137. Soo-Min Song, Min-Jeong Kim, Joung-Min Lee, Hye-Jin Park, KyoungMin Kim, Gi-Jeong Cheon and Myoung-Hee Kim. Coregistration of Small Animal PET and Autoradiography for in vivo–ex vivo Comparison.</p>	<p>199. Omolara Fatukasi, Josef Kittler and Norman Poh. Quality Controlled Multimodal Fusion of Biometric Experts.</p>
13:30 - 15:00	Lunch Marina del Rey Restaurant		
	Fr-7	Fr-8	Fr-9
15:00 - 15:20	<p>22. Amilkar Puris, Rafael Bello, Yaima Trujillo and Ann Nowe, Yailen Martínez. Two-Stage ACO to solve the Job Shop Scheduling Problem.</p>	<p>142. Luis Sánchez, Oleksiy Pogrebnyak and Luis Sánchez. Noise pattern recognition of airplanes taking off: task for a monitoring system.</p>	<p>35. Marcelino Campos, Damián López and Piedachu Peris. Incremental multiple sequence alignment.</p>
15:40 - 15:20	<p>41. Hsin-Yun Chang and Chung-Shan Sun. A Novel Hybrid Taguchi-Grey-based Method for Feature Subset Selection.</p>	<p>152. Sandor Szilagyi, Laszlo Szilagyi and Zoltan Benyo. Echocardiographic Image Sequence Compression Based On Spatial Active Appearance Model.</p>	<p>165. Renatha Cápuia, Helena Leitao, and Jorge Stolfi. Bayesian Detection of Coding Regions in DNA/RNA Sequences Through Event Factoring.</p>

15:40 - 16.00	<p>45. Sang-Woon Kim and Robert Duin. On Using a Pre-Clustering Technique to Optimize LDA-Based Classifiers for Appearance-Based Face Recognition.</p>	<p>153. Sandor Szilagy, László Szilagy, Attila Frigy, Levente Görög and Zoltán Benyo. 3-D Heart Simulation Using Unified Neural Network.</p>	<p>179 Aníbal Rodríguez, Juan Valentín Lorenzo-Ginori and Ricardo Grau. Coding Region Prediction in Genomic Sequences Using a Combination of Digital Signal Processing Approache</p>
16:00 - 16.20	<p>90. José Rouco, Marta Penas, Manuel Penedo, Marcos Ortega and Carmen Alonso-Montes. Certainty Measure of Pairwise Line Segment Perceptual Relations using Fuzzy Logic.</p>	<p>181. Alejandro Veloz, Steren Chabert, Rodrigo Salas, Antonio Orellana and Juan Vielma. Fuzzy Spatial Growing for Glioblastoma Multiforme segmentation on Brain Magnetic Resonance Imaging.</p>	<p>162. Fernando Canales and Max Chacón. Modification of the Growing Neural Gas algorithm for cluster analysis.</p>
16:20 - 16.40	<p>187. Heidy Marin Castro, Enrique Suca and Eduardo Morales. Automatic image annotation using a semi-supervised assemble of classifiers.</p>	<p>185. Silena Herold-García, Jorge Rivera-Rovelo and Eduardo Bayro Corrochano. Conformal Geometric Algebra for Endoscope-Traking System Calibration in Neurosurgery.</p>	
16.40 - 17:10	Final Meeting		