

14th Iberoamerican Congress on Pattern Recognition (CIARP 2009). Program

Workshop and Tutorials

Sunday Nov. 15th Tutorials			
	S1	S2	S3
8:30 - 9:30	<p align="center">Keynote: Pulse Coupled Neural Networks for Automatic Urban Change Detection at Very High Spatial Resolution</p> <p>Fabio Pacifici and William J. Emery</p>	<p align="center">9:00 Tutorial 1</p> <p align="center">Texture analysis methods and applications</p> <p>The tutorial will cover basic texture analysis and segmentation methods, like Markov random fields, Gibbs distributions, mathematical morphology, frequency based methods, sequency based methods, Gabor functions, wavelets, co-occurrence matrices, etc.</p> <p align="center">Prof. Maria Petrou University of Cambridge, UK</p>	<p align="center">9:00 Tutorial 2</p> <p align="center">An overview of research in the computer vision area</p> <p><i>The goal of this tutorial is to cover several current main topics in computer vision research. The scope will be rather broad, including the following topics: image matching, structure-from-motion and image-based 3D modeling, panoramic imaging, image-based modeling of deformable and articulated motions, object recognition, image and video indexing. Underlying principles, current research avenues, and applications will be shown.</i></p> <p align="center">Prof. Peter Sturm INRIA, Grenoble, Rhone-Alpes, France</p>
9:30 - 9:50	<p>W1: Multi-Stage Processing and Feature Recovery Techniques. Chair: Boris Escalante</p> <p>Spectral Estimation of Digital Signals by the Orthogonal Kravchenko Wavelets <i>Victor Kravchenko, Hector Perez Meana, Volodymyr Ponomaryov, Dmitry Churikov</i></p>		
9:50 - 10:10	<p>Video Denoising by Fuzzy Directional Filter Using the DSP EVM DM642</p> <p>Francisco J. Gallegos-Funes, Victor Kravchenko, Volodymyr Ponomaryov, and Alberto Rosales-Silva</p>		
10:10 - 10:30	<p>IMAGE AUTHENTICATION SCHEME BASED ON SELF-EMBEDDING WATERMARKING</p> <p><i>Clara Cruz-Ramos, Rogelio Reyes-Reyes, Mariko Nakano-Miyatake and Héctor Pérez-Meana</i></p>		
10:30 - 10:50	<p>Unified Experiment Design, Bayesian Minimum Risk and Convex Projection Regularization Method</p> <p><i>Yuriy Shkvarko, Jose Tuxpan and Stewart Santos</i></p>		
10:50 - 11:10	<p>Intelligent Experiment Design-Based Virtual Remote Sensing Laboratory <i>Yuriy Shkvarko, Jose Tuxpan and Stewart Santos</i></p>		
11:10 - 11:30	Coffee Break		
11:30 - 11:50	<p>W2: Intelligent RS Imagery Research and Discovery Techniques. Chair: Juan Douardo</p> <p>Optimizing classification accuracy of remotely sensed imagery with DT-CWT fused images <i>Diego Renza, Estibaliz Martinez, and Agueda Arquero</i></p>	<p align="center">Tutorial 1 (Continuation)</p> <p align="center">Texture analysis methods and</p>	<p align="center">Tutorial 2 (Continuation)</p> <p align="center">An overview of research in the</p>

		applications	computer vision area
11:50 - 12:10		Prof. Maria Petrou University of Cambridge, UK	Prof. Peter Sturm INRIA, Grenoble, Rhone-Alpes, France.
	Filter banks for hyperspectral pixel classification of satellite images <i>Olga Rajadell, Pedro Garcia-Sevilla and Filiberto Pla</i>		
12:10 - 12:30	Minimum Variance Gain Nonuniformity Estimation in Infrared Focal Plane Array Sensors <i>César San-Martin, Gabriel Hermosilla</i>		
12:30 - 12:50	Movement Detection and Tracking using Video Frames Josue Hernandez, Hiroshi Morita, Mariko <i>Nakano-Miytake, Hector Perez-Meana</i>		
12:50 - 13:10	A New Steganography Based on x2 Technic <i>Zainab Famili, Karim Faez, Abbas Fadavi</i>		
13:10 - 13:30	Near Real Time Enhancement of Remote Sensing Imagery based on a Network of Systolic Arrays <i>A. Castillo Atoche, D. Torres Roman, Y. Shkvarko</i>		
13:30: 14:30	Lunch		
14:30 - 16:00	<p style="text-align: center;">Tutorial 3</p> <p>Part I: Applications of Geometric Algebra in Robot Vision, Graphics and Medical Image</p> <p>The tutorial will cover the applications of Geometric algebra in Robot vision, Graphics and Medical Image.</p>	<p style="text-align: center;">Tutorial 4</p> <p>We are Building a Topological Pyramid</p> <p>Vision sensors observe 3D objects in a dynamic environment. Objects consist of several connected 3D part and these parts can be connected in different ways: rigidly, articulated,</p>	<p style="text-align: center;">Tutorial 5</p> <p>An introduction to Visual SLAM for applications in robotics and computer vision using fast feature description and matching</p> <p>To be able to build a map of the immediate environment in real-time as well as being able to use this map to position a camera</p>

		<p>smoothly deformable. We will discuss in detail the basic concept of dual graph pyramids and show results for connected component analysis and segmentation. We finally discuss their main properties among which the preservation of the image topology,</p>	<p>in space offers significant advantages to many mobile platforms such as robots, mobile phones or measurement devices. This tutorial aims to be an overview of these techniques with an emphasis on feature description, matching and map management.</p>
	<p>Prof. Eduardo Bayro Corrochano CINVESTAV, Guadalajara, Mexico Dr. Dietmar Hildenbrand Computer science department Graphical interactive systems group, TU, Darmstadt, Germany</p>	<p>Prof. Walter G. Kropatsch Vienna University of Technology, Viena</p>	<p>Dr Walterio Mayol-Cuevas University of Bristol</p>
16:00 - 16:30	Coffee Break		
16:30 - 18:00	<p style="text-align: center;">Tutorial 3 (continuation)</p> <p>Part II: Applications of Geometric Algebra in Robot Vision, Graphics and Medical Image</p>	<p style="text-align: center;">Tutorial 4 (continuation)</p> <p>We are Building a Topological Pyramid</p>	<p style="text-align: center;">Tutorial 5 (continuation)</p> <p>Visual SLAM for applications in robotics and measurement using feature description matching</p>

19:00- 22:00 Ice break Party of the 14th Iberoamerican Congress on Pattern Recognition (CIARP 2009).

**14th Iberoamerican Congress on Pattern Recognition (CIARP 2009).
Main Program**

Monday Nov. 16		
	Keynote	
8:30 - 9:30	An Imaging Architecture Based on Derivative Estimation Sensors	
	Maria Petrou	
9:30 - 9:50	S1: Image Coding, Processing and Analysis. Chair: W. Kropach Dealing with Inaccurate Face Detection for Automatic Gender Recognition with Partially Occluded Faces Yasmina Andreu, Pedro García-Sevilla, and Ramón A. Mollineda	
9:50 - 10:10	Finding Images with Similar Lighting Conditions in Large Photo Collections <i>Mauricio Díaz and Peter Sturm</i>	
10:10 - 10:30	Homological computation using spanning trees H. Molina-Abril and P. Real	
10:30 - 10:50	Two-frame optical flow formulation in an unwarping multiresolution scheme <i>C.Cassisa, S.Simoens1, V.Prinet</i>	
10:50 - 11:10	C o f f e e B r e a k	
11:10 - 11:30	S2: Segmentation, Analysis of Shape and Texture I. Chair: Alvaro Pardo Texture Characterization using a Curvelet Based Descriptor <i>Francisco Gómez and Eduardo Romero</i>	
11:30 - 11:50	Morphological Shape Context: Semi-locality and Robust Matching in Shape Recognition <i>Mariano Tepper, Francisco Gómez, Pablo Musé, Andres Almansa, and Marta Mejail</i>	
11:50 - 12:10	On the Computation of the Common Labelling of a set of Attributed Graphs <i>Albert Solé-Ribalta, Francesc Serratos</i>	
12:10 - 12:30	Advances in Rotation-Invariant Texture Analysis <i>Alfonso Estudillo-Romero and Boris Escalante-Ramirez</i>	
13:10 - 14:30	L u n c h	
14:30 - 14:50	S4 : Segmentation, Analysis of Shape and Texture II. Chair: Maria Petrou SAR image segmentation using level sets and region competition under the G ^H model	S5: Intelligent Computing for Remote Sensing Imagery. Chair: Yuriy Shkvarko Randomized Probabilistic Latent Semantic Analysis for Scene Recognition

	<i>Maria Elena Buemi, Norberto Goussies, Julio Jacobo and Marta Mejail</i>	<i>Erik Rodner and Joachim Denzler</i>
14:50 - 15:10	Multimodal algorithm for iris recognition with local topological descriptors Sergio Campos, Rodrigo Salas, Hector Allende, and Carlos Castro	Object Contour Tracking Using Foreground and Background Distribution Matching <i>Mohand Saïd Allili</i>
15:10 - 15:30	Segmentation in 2D and 3D Image Using Tissue-like P System <i>Hepzibah A. Christinal, Daniel Díaz-Pernil, Pedro Real Jurado</i>	Processing of Microarray Images <i>Fernando Mastandrea and Álvaro Pardo</i>
15:30 - 15:50	Dynamic image segmentation method using hierarchical clustering <i>Jorge Galbiati, Héctor Allende, and Carlos Becerra</i>	Multi-Focus Image Fusion Based on Fuzzy and Wavelet Transform <i>Jamal Saeedi, Karim Faez, and Saeed Mozaffari</i>
15:50 - 16:10	Fast unsupervised texture segmentation based active contour model and battachryya distance <i>Foued DERRAZ, Abdelmalik TALEB-AHMED, Antonio PINTI, Laurent PEYRODIE, Nacim BETROUNI, Azzeddine CHIKH and Fethi BEREKSI-REGUIG</i>	Unsupervised Object Discovery from Images by Mining Local Features Using Hashing <i>Gibran Fuentes Pineda, Hisashi Koga, and Toshinori Watanabe</i>
16:10 - 16:30	C o f f e e B r e a k . B i s c u i t s , R e f r e s h m e n t	
16:30 - 16:50	S6: Geometric Image Processing and Analysis: Pedro Real A Distributed and Collective Approach for Curved Object-based Range Image Segmentation <i>Smaine Mazouzi, Zahia Guessoum, and Fabien Michel</i>	S7: Analysis of Signal, Speech and Language: Aurora Pons-Porrata Isolate Speech Recognition Based on Time-Frequency Analysis Methods <i>Alfredo Mantilla-Caeiros, Mariko Nakano Miyatake and Hector Perez-Meana</i>
16:50 - 17:10	A Fuzzy Segmentation Method for Images of Heat-Emitting Objects <i>Anna Fabijańska</i>	Feature Selection based on Information Theory for Speaker Verification <i>Rafael Fernández, Jean-François Bonastre, Driss Matrouf and José R. Calvo</i>
17:10 - 17:30	A new Unsupervised Learning for Clustering using Geometric Associative Memories <i>Benjamín Cruz, Ricardo Barrón, and Humberto Sossa</i>	Implementation of Three Text to Speech Systems for Kurdish Language <i>Anvar Bahrampour, Wafa Barkhoda, Bahram Zahir Azami</i>
17:30 - 17:50	Geometric Approach to Hole Segmentation and Hole Closing in 3D Volumetric Objects <i>Marcin Janaszewski, Michel Couprie, and Laurent>About</i>	Handwritten Word Recognition Using Multi-View Analysis <i>J. J. de Oliveira Jr., C. O. de A. Freitas, J. M. de Carvalho, and R. Sabourin</i>
17:50 - 18:10	Optimizations and Performance of a Robotics Grasping Algorithm described in Geometric Algebra <i>Florian Wörsdörfer, Florian Stock, Eduardo Bayro-Corrochano, and Dietmar Hildenbrand</i>	A Speed-Up Hierarchical Compact Clustering Algorithm for Dynamic Document Collections <i>Reynaldo Gil-García and Aurora Pons-Porrata</i>
18:10 - 18:30	Getting topological information for a 80-adjacency doxel-based 4D volume through a polytopal cell complex <i>Ana Pacheco and Pedro Real</i>	Incorporating Linguistic Information to Statistical Word-Level Alignment <i>Eduardo Cendejas, Grettel Barceló, Alexander Gelbukh, and Grigori Sidorov</i>
Zapopan by night (optional tour)		

Tuesday. Program

Tuesday Nov. 17th	
8:30 - 9:30	Keynote Challenges and Opportunities for Extracting Cardiovascular Risk Biomarker from Imaging Data Ioannis Kakadiaris
9:30 - 9:50	S8: Feature Extraction, Clustering and Classification I. Chair: Jan-Olof Eklundh A Combine-Correct-Combine Scheme for Optimizing Dissimilarity-Based Classifiers Sang-Woon Kim and Robert P. W. Duin
9:50 - 10:10	Classifier Selection in a Family of Polyhedron Classifiers Tetsuji Takahashi, Mineichi Kudo and Atsuyoshi Nakamura
10:10 - 10:30	Characterization of Feature Points in Eye Fundus Images D. Calvo, M. Ortega, M.G. Penedo, J. Rouco
10:30 - 10:50	Clustering Ensemble Method for Heterogeneous Partitions Sandro Vega-Pons and José Ruiz-Shulcloper
10:50 - 11:10	Coffee Break
11:10 - 11:30	S9: Feature Extraction, Clustering and Classification II. Chair: Reiner Klette Computing the weights of Polynomial Cellular Neural Networks using Quadratic Programming Anna Rubi-Velez, Eduardo Gomez-Ramirez and Giovanni E. Paziienza
11:30 - 11:50	The Multi-level Learning and Classification of Multi-Class Parts-based Representations of US Marine Postures Deborah Goshorn, Juan Wachs, and Mathias Kölsch
11:50 - 12:10	Pigmented skin lesions classification using dermatoscopic images Germán Capdehourat, Andrés Corez, Anabella Bazzano, and Pablo Musé
12:10 - 12:30	Two-dimensional Fast Orthogonal Neural Network for Image Recognition Bart Iomiej Stasiak
13:10 - 14:30	L u n c h CIARP Steering committee meeting
14:30 - 15:30	Keynote 3D and Appearance Modeling from Images Peter Sturm
Poster session Chairs: Walter Kropach and Jaime Ortégón-Aguilar Note: at the beginning of the poster session all the authors have to present in front of the audience in 0.5 minute a 1 power point slide of a summary of his/her poster.	
15:30 - 18:30	List of Posters CIARP 2009. Tuesday
01	Poster S2 A Binarization Method for a Scenery Image with the Fractal Dimension

**Accompanying
Fruits,
Deserts,
C o f f e e ,
Biscuits,
Refreshment**

	Hiroimi Yoshida and Naoki Tanaka
02	Selective Change-Driven Image Processing: a Speeding-up Strategy Jose A. Boluda, Francisco Vegara, Fernando Pardo, and Pedro Zuccarello
03	Coding Long Contour Shapes of Binary Objects Hermilo Sánchez-Cruz and Mario A. Rodríguez-Díaz
04	A Novel Approach to Robust Background Subtraction Walter Izquierdo Guerra and Edel García-Reyes
05	Automatic Choice of the Number of Nearest Neighbors in Locally Linear Embedding Juliana Valencia-Aguirre, Andrés Álvarez-Mesa, Genaro Daza-Santacoloma, and Germán Castellanos-Domínguez
06	K-Medoids-Based Random Biometric Pattern for Cryptographic Key Generation García-Baleon, H. A., Alarcon-Aquino, V., and Starostenko, O.
07	A Hardware Architecture for SIFT Candidate Keypoints Detection Leonardo Chang and José Hernández-Palancar
08	Improving Fingerprint Matching Using an Orientation-Based Minutia Descriptor Miguel Angel Medina-Pérez, Andrés Gutiérrez-Rodríguez, Milton García-Borroto
09	A Study on Representations for Face Recognition from Thermal Images Yenisel Plasencia, Edel García-Reyes, Robert P. W. Duin, Heydi Mendez-Vazquez, César San-Martin, and Claudio Soto
10	Learning an Efficient Texture Model by Supervised Nonlinear Dimensionality Reduction Methods Elnaz Barshan, Mina Behravan, and Zohreh Azimifar
11	Prediction of Sequential Values for Debt Recovery Tomasz Kajdanowicz, Przemysław Kazienko
12	A Computer-Assisted Colorization Approach based on Efficient Belief Propagation and Graph Matching Alexandre Noma, Luiz Velho, and Roberto M. Cesar-Jr
13	Simple Noise robust feature vector selection method for speaker recognition Gabriel Hernández, José R. Calvo, Flavio J. Reyes, and Rafael Fernández

	14	Signal analysis for assessment and prediction of the artificial habitat in shrimp aquaculture José Juan Carbajal Hernández, Luis Pastor Sanchez Fernandez, José Luis Oropeza Rodríguez and Edgardo Manuel Felipe Riverón
	15	Functional Feature Selection by Weighted Projections in Pathological Voice Detection Luis Sánchez Giraldo, Fernando Martínez Tabares, and Germán Castellanos Domínguez
	16	Learning Co-Relations of Plausible Verb Arguments with a WSM and a Distributional Thesaurus Hiram Calvo, Kentaro Inui, Yuji Matsumoto
	17	Airway Tree Segmentation from CT Scans Using Gradient-Guided 3D Region Growing Anna Fabijańska, Marcin Janaszewski, Michał Postolski and Laurent Babout
	18	Color Image Registration Under Illumination Changes <i>Raúl Montoliu, Pedro Latorre Carmona, and Filiberto Pla</i>
	19	Circular Degree Hough Transform Alejandro Flores-Mendez and Angeles Suarez-Cervantes
	20	A Simple Method for Eccentric Event Espial using Mahalanobis Metric Md. Haidar Sharif and Chabane Djeraba
	21	BR: A New Method for Computing all Typical Testors Alexsey Lias-Rodríguez and Aurora Pons-Porrata
	22	Combining functional data projections for time series classification Alberto Muñoz and Javier González
	23	Finding Small Consistent Subset for the Nearest Neighbor Classifier based on Support graphs Milton García-Borroto, Yenny Villuendas-Rey, Jesús Ariel Carrasco-Ochoa, José Fco. Martínez-Trinidad
	24	Analysis of the GRNs inference by using Tsallis entropy and a feature selection approach Fabrício M. Lopes, Evaldo A. de Oliveira and Roberto M. Cesar-Jr
	25	Using maximum similarity graphs to edit Nearest Neighbor Classifiers Milton García-Borroto, Yenny Villuendas-Rey, Jesús Ariel Carrasco-Ochoa, José Fco. Martínez-Trinidad
		The Representation of Chemical Spectral Data for Classification

26	Diana Porro, Robert W. Duin, Isneri Talavera, Noslen Hdez
27	Visual Pattern Analysis in Histopathology Images Using Bag of Features Angel Cruz-Roa, Juan C. Caicedo and Fabio A. González
28	A Brief Index for Proximity Searching Eric Sadit Téllez, Edgar Chávez, and Antonio Camarena-Ibarrola
29	Correlation Pattern Recognition in Nonoverlapping Scene Using a Noisy Reference Pablo M. Aguilar-González and Vitaly Kober
30	Robust Radio Broadcast Monitoring Using a Multi-Band Spectral Entropy Signature Antonio Camarena-Ibarrola and Edgar Chávez and Eric Sadit Tellez
31	Real time hot spot detection using FPGA Sol Pedre, Andres Stoliar and Patricia Borensztejn
32	SPC without Control Limits and Normality Assumption: A New Method J. A. Vazquez-Lopez and I. Lopez-Juarez
33	Leaks Detection in a Pipeline using Artificial Neural Network Ignacio Barradas , Luis E. Garza, Ruben Morales-Menendez, Adriana Vargas-Martínez
34	An Enhanced Probabilistic Neural Network Approach Applied to Text Classification Patrick Marques Ciarelli and Elias Oliveira
35	Writer Identification Using Super Paramagnetic Clustering and Spatio Temporal Neural Network Seyyed Ataollah Taghavi Sangdehi, Karim Faez
36	Landmark Real-Time Recognition and Positioning for Pedestrian Navigation <i>Antonio Adán, Alberto Martín, Enrique Valero, Pilar Merchán</i>
37	A New Segmentation Approach for Old Fractured Pieces <i>Jesus Llanes, Antonio Adan, Santiago Salamanca</i>
38	Experimental Assessment of Probabilistic Integrated Object Recognition and Tracking Methods Francesc Serratosa, Nicolás Amézquita and René Alquézar

	39	A Simple Sample Consensus Algorithm to Find Multiple Models Carlos Lara-Alvarez, Leonardo Romero, Juan F. Flores, Cuauhtemoc Gomez
	40	Generating Video Textures by PPCA and Gaussian Process Dynamical Model Wentao Fan and Nizar Bouguila
	41	Use of Ultrasound and Computer Vision for 3D Reconstruction Machucho C. R., de la Cruz Rodríguez S., Moya Sánchez. E., Bayro-Corrochano E
	42	Compression And Key Feature Extraction For Video Transmission Esteban Tobias Bayro Kaiser, Eduardo Correa Arameda and Eduardo Bayro Corrochano.

Tlaquepaque by night (optional tour)

14th Iberoamerican Congress on Pattern Recognition (CIARP 2009). Program

Wednesday Nov. 18th		
8:30 - 9:30	Keynote When Pyramids Learned Walking	
	Walter G. Kropatsch	
9:30 - 9:50	S10: Computer Vision. Chair: Peter Sturm Towards an Iterative Algorithm for the Optimal Boundary Coverage of a 3D Environment <i>Andrea Bottino</i>	
9:50 - 10:10	Measuring Cubeness of 3D Shapes <i>Carlos Martinez-Ortiz and Joviša Žunić</i>	
10:10 - 10:30	Rigid Part Decomposition in a Graph Pyramid <i>Nicole M. Artner, Adrian Ion, and Walter G. Kropatsch</i>	
10:30 - 10:50	Analysis of Non Local Image Denoising Methods <i>Álvaro Pardo</i>	
10:50 - 11:10	Coffee Break	
11:10 - 11:30	S11: Video Segmentation and Tracking. Chair: Eduardo Bayro-Corrochano Fuzzy Feature-Based Upper Body Tracking with IP PTZ Camera Control <i>Parisa Darvish Zadeh Varcheie and Guillaume-</i>	

	<i>Alexandre Bilodeau</i>	
11:30 - 11:50	Real-Time Stereo Matching using memory-efficient Belief Propagation for High-definition 3D tele-presence systems <i>Jesús M. Pérez and Pablo Sánchez and Marcos Martínez</i>	
11:50 - 12:10	Discrete Integral Sliding Mode Control In Visual Object Tracking Using Differential Kinematics <i>Luis Enrique González Jiménez, Alexander Loukianov and Eduardo Bayro-Corrochano,</i>	
12:10 - 12:30	Machine learning and geometric technique for SLAM <i>Miguel Bernal-Marin and Eduardo Bayro-Corrochano</i>	
13:10 - 14:30	L u n c h	
14:30 - 14:50	S12: Statistical Pattern Recognition, Chair: Maria Petrou Particle Swarm Model Selection for Authorship Verification Hugo Jair Escalante, Manuel Montes, and Luis Villaseñor	S13: Neural Networks for Pattern Recognition. Chair: Nancy Arana-Daniel Improved Online Support Vector Machines Spam Filtering Using String Kernels Olaf Amayri and Nisar Bouquila
14:50 - 15:10	Image characterization from statistical reduction of local patterns <i>Philippe Guermeur and Antoine Manzanera</i>	Neural Network Ensembles From Training set Expansions <i>Debrup Chakraborty</i>
15:10 - 15:30	Semi-Supervised Robust Alternating AdaBoost <i>Héctor Allende-Cid, Jorge Mendoza, Héctor Allende, and Enrique Canessa</i>	A New Incremental Algorithm for Overlapped Clustering Ariel Pérez Suárez, José Fco. Martínez Trinidad, Jesús A. Carrasco Ochoa, and José E. Medina Pagola
15:30 - 15:50	Fast Pattern Classification of Ventricular Arrhythmias using Graphics Processing Units <i>Noel Lopes and Bernardete Ribeiro</i>	A Multi-Class Kernel Alignment Method for Image Collection Summarization Jorge E. Camargo and Fabio A. Gonzalez
15:50 - 16:10	Robot Command Interface using an Audio-Visual Speech Recognition System <i>Alexánder Ceballos, Juan Gómez, Flavio Prieto and Tanneguy Redarce</i>	Neurocontroller for Power electronics-based devices <i>Oliver Perez M., Juan M. Ramirez, Pavel Zuniga H.</i>
16:10 - 16:30	C o f f e e B r e a k	
16:30 - 16:50	S14: Computer Vision II. Chair: Jan-Olof Eklundh Recognition and Quantification of Area Damaged by <i>Oligonychus perseae</i> in Avocado Leaves <i>Gloria Díaz, Eduardo Romero, Juan R. Boyero, and Norberto Malpica</i>	S15: Robot Vision: Eduardo Morales A Rapidly Trainable and Global Illumination Invariant Object Detection System <i>Sri-Kaushik Pavani, David Delgado-Gomez and Alejandro F. Frangi</i>
16:50 - 17:10	Self-Calibration from Planes using Differential Evolution <i>Luis Gerardo de la Fraga</i>	Expanding Irregular Graph Pyramid for an Approaching Object <i>Luis A. Mateos, Dan Shao, and Walter G. Kropatsch</i>
17:10 - 17:30	Graph-Cut versus Belief-Propagation Stereo on Real-World Images <i>Sandino Morales, Joachim Penc, Tobi Vaudrey, and Reinhard Klette</i>	Learning Relational Grammars from Sequences of Actions <i>Blanca Vargas-Govea and Eduardo F. Morales</i>
17:30 - 17:50	Combining Appearance and Range Based Information For Multi-Class Generic Object Recognition <i>Doaa Hegazy, Joachim Denzler</i>	On Environmental Model-Based Visual Perception for Humanoids <i>D. Gonzalez-Aguirre, S. Wieland, T. Asfour, and R. Dillmann</i>
17:50 -	Scene Retrieval of Natural Images	Dexterous Cooperative Manipulation with Redundant Robot Arms

18:10	<i>J. F. Serrano, J. H. Sossa, C. Avilés, R. Barrón, G. Olague, J. Villegas</i>	<i>David Navarro-Alarcon, Vicente Parra-Vega, Silvione/ Vite-Medecigo, and Ernesto Olguin-Diaz</i>
18:10 - 18:30	Conference Closing	
Guadalajara by night (Conference tour)		
Gala dinner		