

9th Mexican Conference on Pattern Recognition
 MCPR2017
 June 21–24, 2017, Huatulco, Mexico

PROGRAM

Wednesday June 21 (main Room)	
8:00-9:00	Registration
9:00-9:20	Opening
9:20-10:20	Keynote Address Industry 4.0: Challenges from a Data Analysis Perspective Prof. Ajith Abraham Machine Intelligence Research Labs, USA
10:20-10:40	Coffee break Posters (Postgraduate Students' Meeting)
	Session 1: Pattern Recognition and Artificial Intelligence Techniques
10:40-11:00	An Algorithm for Computing Goldman Fuzzy Reducts J. Ariel Carrasco-Ochoa, Manuel S. Lazo-Cortés, and José Fco. Martínez-Trinidad
11:00-11:20	A Parallel Genetic Algorithm for Pattern Recognition in Mixed Databases Angel Kuri-Morales and Javier Sagastuy-Breña
11:20-11:40	Extending Extremal Polygonal Arrays for the Merrield-Simmons Index G. De Ita Luna, J.R. Marcial-Romero, J.A. Hernández, R.M. Valdovinos, and M. Romero
11:40-12:00	Comparing Deep and Dendrite Neural Networks: A Case Study Gerardo Hernández, Erik Zamora, and Humberto Sossa
12:00-12:20	Coffee break Posters (Postgraduate Students' Meeting)
	Session 2: Pattern Recognition and Artificial Intelligence Techniques
12:20-12:40	A Novel Contrast Pattern Selection Method for Class Imbalance Problems O. Loyola-González, J.F. Martínez-Trinidad, J.A. Carrasco-Ochoa, and M. García-Borroto
12:40-13:00	Efficient Pattern Recognition Using the Frequency Response of a Spiking Neuron Sergio Valadez-Godínez, Javier González, and Humberto Sossa
13:00-13:20	Evolutionary Clustering Using Multi-prototype Representation and Connectivity Criterion Adán José-García and Wilfrido Gómez-Flores
13:20-13:40	Fixed Height Queries Tree Permutation Index for Proximity Searching Karina Figueroa, Rodrigo Paredes, J. Antonio Camarena-Ibarrola, and Nora Reyes
13:40-14:00	A Projection Method for Optimization Problems on the Stiefel Manifold Oscar S. Dalmau and Harry Oviedo
14:00-15:30	Lunch
	Session 3: Pattern Recognition and Artificial Intelligence Techniques
15:30-15:50	An Alternating Genetic Algorithm for Selecting SVM Model and Training Set Michal Kawulok, Jakub Nalepa, and Wojciech Dudzik
15.50-16:10	Modeling Dependencies in Supervised Classification R. Salinas-Gutiérrez, A. Hernández-Quintero, O. Dalmau-Cedeño, and A.P. Pérez-Díaz
16:10-16:30	Fast-BR vs. Fast-CT EXT: an Empirical Performance Study V. Rodríguez-Diez, J.F. Martínez-Trinidad, J.A. Carrasco-Ochoa, and M.S. Lazo-Cortés
16:30-16:50	Assessing Deep Learning Architectures for Visualizing Maya Hieroglyphs Edgar Roman-Rangel and Stephane Marchand-Maillet

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Thursday June 22 (main Room)	
8:30-9:00	Registration
9:00-10:00	<p>Keynote Address</p> <p>Finding (and Recognizing) Nemo (and other Things)</p> <p>Prof. Eduardo Morales National Institute of Astrophysics, Optics and Electronics, Mexico</p>
10:00-10:20	Coffee break Posters (Postgraduate Students' Meeting)
	Session 4: Applications of Pattern Recognition
10:20-10:40	Visual Remote Monitoring and Control System for Rod Braking on Hot Rolling Mills O. Starostenko, I.G. Trygub, C. Cruz-Perez, V. Alarcon-Aquino, and Oleg E. Potap
10:40-11:00	BUSAT: A MATLAB Toolbox for Breast Ultrasound Image Analysis A. Rodríguez-Cristerna, W. Gómez-Flores, and W. Coelho de Albuquerque-Pereira
11:00-11:20	Fiber Defect Detection of Inhomogeneous Voluminous Textiles Dirk Siegmund, Timotheos Samartzidis, Biying Fu, Andreas Braun, and Arjan Kuijper
11:20-11:40	Language Proficiency Classification During Computer-based Test with EEG Pattern Recognition Methods Federico Cirett-Galán, Raquel Torres-Peralta, and Carole R. Beal
11:40-12:00	Morphological Analysis Combined with a Machine Learning Approach to Detect Ultrasound Median Sagittal Sections for the Nuchal Translucency Measurement Giuseppa Sciortino, Domenico Tegolo, and Cesare Valenti
12:00-12:20	Coffee break Posters (Postgraduate Students' Meeting)
	Session 5: Image Processing and Analysis
12:20-12:40	Image Noise Filter Based on DCT and Fast Clustering M.deJ. Martínez Felipe, E. M. Felipe Riveron, P. Manrique Ramirez, and O. Pogrebnyak
12:40-13:00	Color-Texture Image Analysis for Automatic Failure Detection in Tiles M.T. Villalon-Hernandez, D.L. Almanza-Ojeda, and M.A. Ibarra-Manzano
13:00-13:20	ROIs Segmentation in Facial Images Based on Morphology and Density Concepts J. García-Ramírez, J.A. Olvera-López, I. Olmos-Pineda, and M. Martín-Ortíz
13:20-13:40	A Pathline-based Background Subtraction Algorithm Reinier Oves García, Luis Valentin, Carlos Pérez Risquet, and L. Enrique Sucar
13:40-15:30	Lunch
	Free Afternoon
20:00-22:00	Conference Dinner

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Friday June 23 (Main Room)

8:30-9:00	Registration
9:00-10:00	Keynote Address Video Event Understanding with Pattern Theory Prof. Sudeep Sarkar (IAPR Invited Speaker) University of South Florida, USA
10:00-10:20	Coffee break
	Session 6: Robotics and Remote Sensing
10:20-10:40	Perspective Reconstruction by Determining Vanishing Points for Autonomous Mobile Robot Visual Localization on Supermarkets O. Alonso-Ramirez, M.D. Lopez-Correa, A. Marin-Hernandez, and H.V. Rios-Figueroa
10:40-11:00	On the Detectability of Buried Remains with Hyperspectral Measurements J.L. Silván-Cárdenas, N. Corona-Romero, J.M. Madrigal-Gómez, A. Saavedra-Guerrero, T. Cortés-Villafranco, and E. Coronado-Juárez
11:00-11:20	An Exploration Strategy for RL with Considerations of Budget and Risk Jonathan Serrano Cuevas and Eduardo Morales Manzanares
11:20-11:40	An Airborne Agent Daniel Soto-Guerrero and José Gabriel Ramírez-Torres
11:40-12:00	Coffee break
	Session 7: Natural Language Processing and Recognition
12:00-12:20	An Approach Based in LSA for Evaluation of Ontological Relations on Domain Corpora Mireya Tovar, David Pinto, Azucena Montes, and Gabriel González
12:20-12:40	Semantic Similarity Analysis of Urdu Documents Basit Rida Hijab, Aslam Muhammad, A.M. Martinez-Enriquez, and Z.S. Afraz
12:40-13:00	Mining the Urdu Language-based Web Content for Opinion Extraction Z.S. Afraz, A.M. Martinez-Enriquez, N. Akhzar, A. Muhammad, and B.R. Hijab
13:00-14:00	Final Meeting
14:00-15:30	Lunch
	Free Afternoon

Saturday June 24			
8:00-9:00	Registration		
9:00-10:30	<p>Tutorial 1</p> <p>An Introduction to General Pattern Theory for Video Activity Analysis</p> <p>Prof. Sudeep Sarkar (IAPR Invited Speaker) University of South Florida, USA</p>	<p>Tutorial 2</p> <p>Reinforcement Learning</p> <p>Prof. Eduardo Morales National Institute of Astrophysics, Optics and Electronics, Mexico</p>	<p>Tutorial 3</p> <p>Artificial Neural Networks: New Models, Algorithms and Applications</p> <p>Prof. Humberto Sossa Center for Computing Research, National Polytechnic Institute, Mexico</p>
10:30-10:45	Coffee Break		
10:45-12:00	<p>Tutorial 1 (second part)</p> <p>An Introduction to General Pattern Theory for Video Activity Analysis</p> <p>Prof. Sudeep Sarkar (IAPR Invited Speaker) University of South Florida, USA</p>	<p>Tutorial 2 (second part)</p> <p>Reinforcement Learning</p> <p>Prof. Eduardo Morales National Institute of Astrophysics, Optics and Electronics, Mexico</p>	<p>Tutorial 3 (second part)</p> <p>Artificial Neural Networks: New Models, Algorithms and Applications</p> <p>Prof. Humberto Sossa Center for Computing Research, National Polytechnic Institute, Mexico</p>