

MCPR2019 General Program

Wednesday, June 26, Querétaro Regional Museum

8:00-9:00	Registration
9:00-9:20	Opening
9:30-10:30	Keynote Address: Professor Roberto Manduchi. Vision without Sight: Finding, Reading, and Magnifying Text
10:30-10:45	Coffee Break
10:45-11:05	A Supervised Filter Feature Selection Method for Mixed Data based on the Spectral Gap Score <i>Saúl Solorio-Fernández, José Fco. Martínez-Trinidad, and Jesús Ariel Carrasco-Ochoa</i>
11:05-11:25	Motor Imagery Task Classification in EEG Signals with Spiking Neural Network <i>Carlos D. Virgilio G, Humberto Sossa, Javier M. Antelis, and Luis E. Falcón</i>
11:25-11:45	Rock Detection in a Mars-like Environment using a CNN <i>Federico Furlán, Elsa Rubio, Humberto Sossa, and Víctor Ponce</i>
11:45-12:05	Novel Leak Location Approach in Water Distribution Networks with Zone Clustering and Classification <i>Marcos Quiñones-Grueiro, Cristina Verde, and Orestes Llanes-Santiago</i>
12:05-12:20	Coffee Break
12:20-12:40	Convolutional Genetic Programming <i>Lino Rodriguez-Coayahuitl, Alicia Morales-Reyes, and Hugo Jair Escalante</i>
12:40-13:00	Methods for Procedural Terrain Generation: A Review <i>Luis Oswaldo Valencia-Rosado and Oleg Starostenko</i>
13:00-13:20	Some Variations of Upper Confidence Bound for General Game Playing <i>Iván Francisco-Valencia, José Raymundo Marcial-Romero, and Rosa María Valdovinos-Rosas</i>
13:20-13:40	Dendrite Ellipsoidal Neuron Trained by Stochastic Gradient Descent for Motor Imagery Classification <i>Fernando Arce, Omar Mendoza-Montoya, Erik Zamora, Javier M. Antelis, Humberto Sossa, Jessica Cantillo-Negrete, Ruben I Carino-Escobar, Luis G. Hernández, and Luis Eduardo Falcón</i>
13:40-15:20	Lunch. San Miguelito. Andador 5 de Mayo 39
15:20-15:40	An Improved Convolutional Neural Network Architecture for Image Classification <i>A. Ferreyra-Ramirez, C. Aviles-Cruz, E. Rodriguez-Martinez, J. Villegas-Cortez, and A. Zuñiga-Lopez</i>
15:40-16:00	Exploring the use of Psycholinguistic Information in Author Profiling <i>Delia Irazú Hernández Farías, Rosa María Ortega-Mendoza, and Manuel Montes-y-Gómez</i>
16:00-16:20	Using Synthetic Images for Deep Learning Recognition Process on Automatic License Plate Recognition <i>Saulo Cardoso Barreto, Jorge Albuquerque Lambert, and Flávio de Barros Vidal</i>
16:20-16:40	Detection and Tracking of Motorcycles in Congested Urban Environments using Deep Learning and Markov Decision Processes

	<i>Jorge E. Espinosa, Sergio A. Velastin, and John W. Branch</i>
16:40-17:00	A Review of Local Feature Algorithms and Deep Learning Approaches in Facial Expression Recognition with Tensorflow and Keras <i>Kennedy Chengeta and Serestina Viriri</i>
18:00-19:30	Tour: Queretaro's colonial buildings

Thursday, June 27, Querétaro Regional Museum

9:15-9:30	Registration
9:30-10:30	Keynote Address: Professor Adolfo Guzmán Arenas. To specialize or to mix?: The future of undergraduate education in AI and Data Science
10:30-10:45	Coffee Break
10:45-11:05	Towards a Rodent Tracking and Behaviour Detection System in Real Time <i>José Arturo Cocoma-Ortega and Jose Martinez-Carranza</i>
11:05-11:25	Facial Re-Identification on Non-Overlapping Cameras and in Uncontrolled Environments <i>Everardo Santiago Ramírez, J.C. Acosta-Guadarrama, Jose Manuel Mejía Muñoz, Josue Dominguez Guerrero, and J.A. Gonzalez-Fraga</i>
11:25-11:45	Thermal Radiation Dynamics of Soil Surfaces with Unmanned Aerial Systems <i>Othón González, Mariano I. Lizarraga, Sertac Karaman, and Joaquín Salas</i>
11:45-12:05	Intra-Patient Arrhythmia Heartbeat Modeling by Gibbs Sampling <i>Ethery Ramírez-Robles, Miguel Angel Jara-Maldonado, and Gibran Etcheverry</i>
12:05-12:20	Coffee Break
12:20-12:40	Non-invasive Glucose Level Estimation: a Comparison of Regression Models using the MFCC as Feature Extractor <i>Victor Francisco-García, Iris P. Guzmán-Guzmán, Rodolfo Salgado-Rivera, Gustavo A. Alonso-Silverio, and Antonio Alarcón-Paredes</i>
12:40-13:00	Non-parametric Brain Tissues Segmentation via a Parallel Architecture of CNNs <i>Dante Mújica-Vargas, Alicia Martínez, Manuel Matuz-Cruz, Antonio Luna-Alvarez, and Mildred Morales-Xicohtencatl</i>
13:00-13:20	Automatic Detection and Classification of Hearing Loss Conditions using an Artificial Neural Network Approach <i>Edgar Mosqueda Cárdenas, José P. de la Rosa Gutiérrez, Lina María Aguilar Lobo, and Gilberto Ochoa Ruiz</i>
13:20-13:40	Asymmetry Level in Cleft Lip Children Using Dendrite Morphological Neural Network <i>Griselda Cortés, Fabiola Villalobos, and Mercedes Flores</i>
13:40-15:20	Lunch. San Miguelito. Andador 5 de Mayo 39
15:20-15:40	Novel SSVEP Processing Method Based on Correlation and Feedforward Neural Network for Embedded Brain Computer Interface

	<i>Juan Ramírez-Quintana, Jose Macias-Macias, Alma Corral-Saenz, and Mario Chacon-Murguia</i>
15:40-16:00	On the Use of Constructs for Rule-Based Classification: A Case Study <i>Manuel S. Lazo-Cortés, José Fco. Martínez-Trinidad, and Jesús A. Carrasco-Ochoa</i>
16:00-16:20	Recognizing 3-colorable Basic Patterns on Planar Graphs <i>Guillermo De Ita Luna and Cristina López-Ramírez</i>
16:20-16:40	Inference Algorithm with Falsifying Patterns for Belief Revision <i>Bello, P. and De Ita, G.</i>
16:40-17:00	Analytical Hierarchy Process Based Model for Safety Assessment of Coastal Touristic Locations <i>Alberto Daniel Dávila-Lamas, José J. Carbajal-Hernández, Luis P. Sánchez-Fernández, and César A. Hoil-Rosas</i>
20:00-22:00	Dinner Party. Fin de Siglo Restaurant

Friday, June 28, Querétaro Regional Museum

9:15-9:30	Registration
9:30-10:30	Keynote Address: Professor Sertac Karaman. Next-generation Vision-enabled Drones: High-throughput and Low-energy Computing (video conference)
10:30-10:45	Coffee Break
10:45-11:05	Polygonal Approximation using a Multiresolution Method and a Context-free Grammar <i>Hermilo Sánchez-Cruz, Osvaldo A. Tapia-Dueñas, and Francisco Cuevas</i>
11:05-11:25	A Binary descriptor Invariant to Rotation and Robust to Noise (BIRRN) for Floor Recognition. <i>J. A. de Jesús Osuna-Coutiño and Jose Martinez-Carranza</i>
11:25-11:45	Automatic Contrast Enhancement with Differential Evolution for Leukemia Cell Identification <i>R. Ochoa-Montiel, O. Flores-Castillo, Humberto Sossa, and G. Olague</i>
11:45-12:05	Enhanced Parallel Generation of Tree Structures for the Recognition of 3D Images <i>P. Real, H. Molina-Abril, F. Díaz-del-Río, S. Blanco-Trejo, and D. Onchis</i>
12:05-12:20	Coffee Break
12:20-12:40	Blood Vessel Analysis on High Resolution Fundus Retinal Images <i>Gemma S. Parra-Dominguez, Raul E. Sanchez-Yanez, and S. Ivvan Valdez</i>
12:40-13:00	Modeling of a Simplified 2D Cardiac Valve by Means of System Identification <i>Carlos Duran-Hernandez, Rogelio Perez-Santiago, Gibran Etcheverry, and Rene Ledesma-Alonso</i>
13:00-13:20	Sound Source Localization using Beamforming and Its Representation in a Mixed Reality Embedded Device <i>Aldo Valencia-Palma and Diana-Margarita Córdova-Esparza</i>
13:20-13:40	Using Morphological-Linear Neural Network for Upper Limb Movement Intention Recognition from EEG Signals <i>Gerardo Hernández, Luis G. Hernández, Erik Zamora, Humberto Sossa, Javier M. Antelis, Omar Mendoza-Montoya, and Luis E. Falcón</i>
13:40-	Lunch. Andador 5 de Mayo 39

15:20	
15:20-15:40	Evaluation of Five Classifiers for Children Activity Recognition with Sound as Information Source and Akaike Criterion for Feature Selection <i>Antonio García-Domínguez, Laura A. Zanella-Calzada, Carlos E. Galván-Tejada, Jorge I. Galván-Tejada, and José M. Celaya-Padilla</i>
15:40-16:00	Estimation of Forest Carbon from Aerial Photogrammetry Dagoberto Pulido, Klaus Puettmann, and Joaquín Salas (video conference)
16:00-16:20	Abstractive Multi-Document Text Summarization using a Genetic Algorithm <i>Verónica Neri Mendoza, Yulia Ledeneva, and René Arnulfo García-Hernández</i>
16:20-16:40	Soft Bigram Similarity to Identify Confusable Drug Names <i>Christian Eduardo Millán-Hernández, René Arnulfo García-Hernández, Yulia Ledeneva, and Angel Hernández-Castañeda</i>
16:40-17:00	Closing

SATURDAY, June 29, CICATA-IPN

8:30-9:00	Coffee Break			
9:00-10:30 10:40-1200	Tutorial Room - 001 Professor Angel Kuri. Determining the architecture of a network of perceptrons: A mathematical formulation	Tutorial Room - 002. Professor Edgar Román-Rangel. Crash Course on the use of Autoencoders for Image Restoration	Tutorial Room - 003. Professor Humberto Sossa. Neural Networks: From Classic to Modern Methods	Tutorial Room - 004. Professor Joaquín Salas. A Guided Visit to Deep Learning
10:30-10:40	Coffee Break			

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