

DETAILED PROGRAM

October 31, Thursday Morning

09:00-10:00

Keynote talk: Julian Togelius, NY University, USA
Are games still interesting for AI research?
Building: Tlaqna, Room: Annexed Room

10:00-10:15

Break

10:15-
11:45

Parallel Session 31-1: Machine Learning 4

Building: Tlaqna, Room: Annexed Room

Session Chair: Hiram Ponce

*** If a talk is cancelled, other talks will be moved up.**

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| 10:15 – 10:45
127 | Juan Sebastián Guadalupe Godínez Borja, Marco Antonio Corona Ruiz and Carlos Pérez Leguizamó | ADSOA - Fault Detection and Recovery Technology Based on Collective Intelligence |
| 10:45 – 11:15
131 | Sarahi Aguilar-Gonzalez and Leon Palafox | Prediction of Student Attrition using Machine Learning |
| 11:15 – 11:45
121 | Monica Borunda, Raul Garduno, Ann E. Nicholson and Javier de la Cruz | Assessment of Small-scale Wind Turbines to Meet High-energy Demand in Mexico with Bayesian Decision Networks |
| 11:45 – 12:00 | | Break |

10:15-
11:45

Parallel Session 31-2: Natural Language Processing 1

Building: USBI, Room: Videoconference 1

Session Chair: Alexander Gelbukh

*** If a talk is cancelled, other talks will be moved up.**

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| 10:15 – 10:45
110 | Ulisses Brisolara Correa and Ricardo Matsumura Araujo | AE-CharCNN: Char-level Convolutional Neural Networks for Aspect-based Sentiment Analysis |
| 10:45 – 11:15
96 | Vladimir Bochkarev, Valery Solovyev and Anna Shevlyakova | A Corpus-based Study of the Rate of Changes in Frequency of Syntactic Bigrams in English and Russian |

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11:15 – 11:45₂₇ Omar Rodríguez López and Guillermo de Jesús Hoyos Rivera A Simple but Powerful Word Polarity Classification Model

11:45 – 12:00 Break

10:15-11:45 Parallel Session 31-3: Vision and Robotics 2

Building: USBI, Room: Videoconference 2

Session Chair: Gilberto Ochoa

*** If a talk is cancelled, other talks will be moved up.**

10:15 – 10:45₃₅ Carlos Hernández-Santos, Donovan S. Labastida, Ernesto Rincón, Stewart Robotic Platform for Topographic Measuring System
A. Fernández-Ramírez, Fermín C. Aragón and José Valderrama-

10:45 – 11:15₄₉ Elizabeth Santiago, Sergio A. Serrano and L. Enrique Sucar A Knowledge and Probabilistic Based Task Planning Architecture for ^[SEP]Service Robotics

11:15 – 11:45₅₀ Orlando Lara-Guzmán, Sergio A. Serrano, David Carrillo-López and RGB-D Camera and 2D Laser Integration for Robot Navigation in ^[SEP]Dynamic Environments
L. Enrique Sucar

11:45 – 12:00 Break

10:15-11:45 Parallel Session 31-4: Optimization and Planning 3

Building: USBI, Room: Videoconference 3

Session Chair: Efren Mezura

*** If a talk is cancelled, other talks will be moved up.**

10:15 – 10:45₁₃₃ Fevrier Valdez, Patricia Melin and Oscar Castillo Optimization of Modular Neural Networks for Pattern Recognition ^[SEP]with Parallel Genetic Algorithms

10:45 – 11:15₁₄₇ Cesar J. Montiel Moctezuma, Jaime Mora and Miguel Gonzalez-Mendoza Solving Dynamic Combinatorial Optimization Problems using a ^[SEP]Probabilistic Distribution as Self-adaptive Mechanism in a Genetic Algorithm

11:15 – 11:45₉₅ César E. Cea-Montufar, Emmanuel A. Merchán-Cruz, Multiobjective GA for Collision Avoidance on Robot Manipulators ^[SEP]Based on Artificial Potential Field
Javier Ramírez-Gordillo, Bárbara M. Gutiérrez-Mejía,
Erasto Vergara-Hernández and Adriana Nava-Vega

11:45 – 12:00 Break

October 31, Thursday Afternoon

**12:00-
13:00**

Keynote talk: Manuel Montes y Gómez, INAOE, Mexico
About me and my illness: Two psycholinguistically-motivated methods for detecting depression in social media
Building: Tlaqna, Room: Annexed Room

13:00-13:15

Break

**13:15-
17:15**

Tutorial: Nuevos Modelos y Algoritmos de Redes Neuronales Artificiales - Juan Humberto Sossa Azuela
Building: Tlaqna Annexed Room

**13:15-
14:45**

Parallel Session 31-5: Fuzzy Systems, Reasoning and Intelligent Applications 4
Building: USBI, Room: Videoconference 1
Session Chair: Ildar Batyrshin
*** If a talk is cancelled, other talks will be moved up.**

13:15-13:45
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Octavio Loyola-González

Understanding the Criminal Behavior in Mexico City through an Explainable Artificial Intelligence Model

13:45-14:15
125

Leticia Luna-Lobano, Prometeo Cortes-Antonio, Oscar Castillo and Patricia Melin

Comparative Study of P, PI, Fuzzy and Fuzzy PI Controllers in Position Control for Omnidirectional Robots

14:15-14:45
122

Hiram Ponce, José Antonio Marmolejo-Saucedo and Lourdes Martínez-Villaseñor

Towards Constant Calculation in Disjunctive Inequalities using Wound Treatment Optimization

**13:15-
14:45**

Parallel Session 31-6: Vision and Robotics 3
Building: USBI, Room: Videoconference 2
Session Chair: Héctor Gabriel Acosta
*** If a talk is cancelled, other talks will be moved up.**

13:15-13:45
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Ludivina Facundo, Chidentree Treeratayapun and Arturo Baltazar

Adaptive Controller Based on IF-THEN Rules and Simultaneous Perturbation Stochastic Approximation Tuning for a Robotic System

13:45-14:15
137

José Arturo Cocoma-Ortega and José Martínez-Carranza

Towards High-speed Localisation for Autonomous Drone Racing

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14:15-14:45 Hiram Ponce, Mario Acevedo, Elizabeth Morales-Olvera, Lourdes Martínez-Villaseñor, Gabriel Díaz-Ramos and Carlos Mayorga-Acosta Modeling and Control Balance Design for a New Bio-inspired Four-legged Robot
126

**14:45-
16:00**

Lunch

**16:00-
18:00** **Parallel Session 31-7: Machine Learning 5**

Building: USBI, Room: Videoconference 1

Session Chair: Nicandro Cruz

*** If a talk is cancelled, other talks will be moved up.**

16:00-16:30 Gabriel Alejandro Medina-Aguilar The Blade Runner Scene. How Human-machine Contact Incarnates Social Interactions
120

16:30-17:00 Pedro Ponce, Antonio Rosales, Arturo Molina and Raja Ayyanar Designing Fuzzy Artificial Organic Networks Using Sliding-mode Control
148

17:00-17:30 Martín Montes Rivera, Alejandro Padilla, Julio César Ponce Gallegos, Juana Canul Reich, Alberto Ochoa Zezzatti and Miguel A. Meza de Luna Performance of Human Proposed Equations, Genetic Programming Equations, and Artificial Neural Networks in a Real-time Color Labeling Assistant for the Colorblind
10

17:30-18:00 Andres Angulo, Juan Antonio Vega-Fernández, Lina Maria Aguilar Lobo, Shailendra Natraj and Gilberto Ochoa-Ruiz Road Damage Detection Acquisition System Based on Deep Neural Networks for Digital Asset Management
13

**14:00-
17:00** **National Logistics Laboratory, Meeting and Working Session: Big Data for Transport Systems and Logistics**

Cesar Jaime Montiel Moctezuma, Miguel Gastón Cedillo Campos, Jaime Mora Vargas

Building CIIA, Room: Auditorium Dr. Emilio Gidi Villareal

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16:00-18:00 Parallel Session 31-8: Vision and Intelligent Applications 4

Building: USBI, Room: Videoconference 2

Session Chair: Félix Castro

*** If a talk is cancelled, other talks will be moved up.**

16:30-17:00	31	Lucero Alvarado, Griselda Quiroz, Angel Rodriguez-Liñan and Luis Torres-Treviño	Clusterized KNN for EEG Channel Selection and Prototyping of Lower-limb Joint Torques
17:00-17:30	132	Fábio Aiub Sperotto, Mairon Belchior and Marilton Sanchotene de Aguiar	Ontology-based Legal System in Multi-agents Systems
17:30-18:00	44	Arturo Hernández-Miranda, Alexander Gelbukh and Olga Kolesnikova	Lexical Function Identification using Word Embeddings and Deep Learning

Friday November 1

09:00 Academic activities and cultural program (Tour to Archeologic zone: Cempoala and Quiahuiztlán)

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