Paper Presentations Schedule

IEEE Latin American Conference on Computational Intelligence 2023

Special Session 1				
Paper #	Date	Time	Authors	Title
63	Mon 30 Oct	10:30-10:50	Luiz Felipe Vieira Vercosa, Carmelo J. A. Bastos Filho and Byron Bezerra	An Approach for Analysing Law Processes based on Hierarchical Activities and Clustering
44	Mon 30 Oct	10:50-11:10	Laura Maria Palomino Mariño and Francisco de Assis Tenorio de Carvalho	An Heuristic Batch SOM algorithm with Weighted C-Medoids for dissimilarity data
15	Mon 30 Oct	11:10-11:30	Ning Tao, Anthony Ventresque and Takfarinas Saber	Program Synthesis with Generative Pre-trained Transformers and Grammar-Guided Genetic Programming Grammar
52	Mon 30 Oct	11:30-11:50	Igor Dias and Carlos Henrique Forster	Design and Evaluation of Sentiment Analysis as a Decision Tool Regarding Market Assets

Special Session 2				
Paper #	Date	Time	Authors	Title
64	Tue 31 Oct	10:30-10:50	João Vinicius Andrade, Teobaldo Gabriel Souza Junior, Leandro Silva, Daisy Lucena and Bruno Fernandes	Assessing the Effect of Urban Expansion and Deforestation on Temperature Rise in Cajazeiras, Brazil: A Data-Driven Approach
57	Tue 31 Oct	10:50-11:10	André Xavier, Bruno Fernandes and João Oliveira	Hybrid Model and Ensemble for Inflation Forecasting: A Machine Learning Approach
71	Tue 31 Oct	11:10-11:30	Emilly P. Alves, Felipe Alberto B. S. Ferreira, Francisco Madeiro, Paulo S. G. de Mattos Neto and João Fausto L. de Oliveira	Hybrid System with Dynamic Classification for Combining Time Series Forecasts
70	Tue 31 Oct	11:30-11:50	Adriano Madureira, Flávio Moura, André Alves, Lyanh Pinto, Fernando Costa, Walter Júnior, Diego Cardoso and Marcos Seruffo	Artificial Intelligence in Education 5.0: a methodology for three-dimensional geometric shape classification for an educational tool

Special Session 3				
Paper #	Date	Time	Authors	Title
27	Wed 1 Nov	10:30-10:50	Percy Maldonado Quispe and Helio Pedrini	Image Dehazing Using a Simple Convolutional Autoencoder
30	Wed 1 Nov	10:50-11:10	Ade Indra Onthoni and Prasan Kumar Sahoo	Instance Segmentation based Object Detection with Enhanced Path Aggregation Network
19	Wed 1 Nov	11:10-11:30	Pietro Bernardo Santos Masur, Willams Costa, Lucas S. Figueredo and Veronica Teichrieb	Leveraging Previous Facial Action Units Knowledge for Emotion Recognition on Faces
59	Wed 1 Nov	11:30-11:50	Lucas David, Luis Liborio, Guilherme Paiva, Marianna Severo, Eduardo Valle, Hélio Pedrini and Zanoni Dias	Adversarial Feature Hallucination in a Supervised Contrastive Space for Few-Shot Learning of Provenance in Paintings

Regular Paper Session 1				
Paper #	Date	Time	Authors	Title
65	Mon 30 Oct	14:30-14:50	Cristian Camilo Millán-Arias, Jean Felipe C. Ferreira, Lucas M. da Silva Oliveira, Bruno J. T. Fernandes and Diogo Passarelli	Anomaly Detection in Conveyor Belt Using a Deep Learning Model
7	Mon 30 Oct	14:50-15:10	Jordan Luke, Dania Tamayo-Vera, Antonio Bolufe-Rohler and Mark Bowlan	Automatic classification of categories for Great Hobbies Inc. based on Vendor Information
80	Mon 30 Oct	15:10-15:30	Leandro Silva, Agostinho Freire, George Azevedo, Sergio Oliveira and Bruno Fernandes	Enhancing Electronic Component Classification with Supervised Contrastive Learning: A Comparative Evaluation
88	Mon 30 Oct	15:30-15:50	Allana Rocha, Bruno Fernandes and Leandro Honorato	Evaluation of Deep Learning Model for Detecting Electronic Components in Few-Shot Learning Scenarios

Regular Paper Session 2				
Paper #	Date	Time	Authors	Title
76	Mon 30 Oct	14:30-14:50	Agostinho Freire, Rafaella Roque, Leandro Honorato Silva and Bruno Fernandes	Interpretable Diagnosis of Banana Leaf Sigatoka Disease using CNNs and Shapley Values
48	Mon 30 Oct	14:50-15:10	Igor de Moura Philippini, Ladson Gomes Silva and Stefan Blawid	Enhancing Crop Clinic Assistance: Empowering Plant Disease Detection through Multi-task Machine Learning
58	Mon 30 Oct	15:10-15:30	Jonas Krause, Andrei de Souza Inacio and Heitor Silverio Lopes	Language-focused Deepfake Detection Using Phonemes, Mouth Movements, and Video Features
95	Mon 30 Oct	15:30-15:50	Pietro Bernardo Santos Masur, Francisco Braulio Oliveira, Lucas Moreira Medino, Emanuel Huber, Milene Haraguchi Padilha, Cassio de Alcantara and Renata Sellaro	Exploring Lip Segmentation Techniques in Computer Vision: A Comparative Analysis

Regular Paper Session 3

Paper #	Date	Time	Authors	Title
20	Mon 30 Oct	14:30-14:50	Wilson Soto and Daniel Soto	A Multi-Agent Based Algorithm for Quadratic Assignment Problem
45	Mon 30 Oct	14:50-15:10	Ning Tao, Anthony Ventresque and Takfarinas Saber	Many-objective Grammar-guided Genetic Programming with Code Similarity Measurement for Program Synthesis
87	Mon 30 Oct	15:10-15:30	Manuel Freire, Raúl Marichal, Ernesto Dufrechou, Pablo Ezzatti and Martin Pedemonte	Trajectory-based Metaheuristics for Improving Sparse Matrix Storage
3	Mon 30 Oct	15:30-15:50	Stephen Chen, Shanshan Lao and I. Moser	Footprinting the Behaviour of Particle Swarm Optimization with Increasing Dimensionality

Regular Paper Session 4

Paper #	Date	Time	Authors	Title
53	Mon 30 Oct	16:30-16:50	Ricardo F. Soto and Sebastián E. Godoy	A novel feature extraction approach for skin cancer screening using active thermography
85	Mon 30 Oct	16:50-17:10	Brunna Furriel, Artur Paulo, Guilherme Ribeiro, Paulo Santos, Eduardo Reis, Giovanna Mendes, Joselisa Paiva, Rafael Loureiro, Letícia Rittner and Márcio Reis	Convolutional Neural Network for Pleural Effusion Classification
66	Mon 30 Oct	17:10-17:30	Nathália Cauás, Cristian Millan-Arias, Débora Brito, Cláudia Mota, Márcia Fonseca, Aronita Rosenblatt and Bruno Fernandes	Detection of Cavities in Radiographs Using Machine Learning: Approaches for Limited Data
68	Mon 30 Oct	17:30-17:50	Cristian Camilo Millan-Arias, Bruno J. T. Fernandes, Sergio Fernandes and Mavio Bispo	General Cephalometric Landmark Detection for Different Source of X-Ray Images

Regular Paper Session 5

Paper #	Date	Time	Authors	Title
12	Mon 30 Oct	16:30-16:50	Kaike Sa Teles Rocha Alves, Rosângela Ballini and Eduardo Pestana de Aguiar	A Semi-evolving Output Based System (SeOB) Applied to Time Series Forecasting
77	Mon 30 Oct	16:50-17:10	Gustavo Amarilla Santacruz, Diego Pinto Roa, Diego Stalder and Max Pasten	Comparative Analysis of Statistical and Recurrent Neural Network Models for Short-Term River Level Forecasting in the Paraguay River
121	Mon 30 Oct	17:10-17:30	Leandro Ferreira Moura Filho, Rodrigo de Paula Monteiro, Diego Pinheiro, Patricia Takako Endo and Andrea Maria N C Ribeiro	Forecasting Imminent Failures in Electrical Industrial Centrifuge using Machine Learning
75	Mon 30 Oct	17:30-17:50	Mario Torrez-Callisaya and Guillermo Sahonero-Alvarez	Frost Forecast and Early Alarm System based on Deep Learning

Regular Paper Session 6				
Paper #		Time	Authors	Title
101	Mon 30 Oct	16:30-16:50	Rafael Souza, Rodrigo Paula, Daniel Bezerra, Iago Rodrigues, Robson Lins, Michelle Tenca and Gabriel Almeida	A PSO-SVR Based Resource Allocation Approach for Network Function Virtualization
28	Mon 30 Oct	16:50-17:10	Elias José de Rezende Freitas, Miri Weiss Cohen and Frederico Gadelha Guimaraes	An Autonomous Mobile Robot Path Planner using Spline Curves and Differential Evolution
35	Mon 30 Oct	17:10-17:30	Carlos Adriano Beserra da Silva, Carmelo J. A. Bastos Filho and Clodomir Santana	Impact Assessment of Memetic Operators on Communication Topologies for the PSO
2	Mon 30 Oct	17:30-17:50	Stephen Chen, Shehnaz Islam and Shanshan Lao	The Danger of Metaphors for Metaheuristic Design

Regular Paper Session 7				
Paper #	Date	Time	Authors	Title
120	Tue 31 Oct	14:30-14:50	Umberto Tenório Barros Filho, Paulo Rocha, Marcos Oliveira, Andrea Maria Nogueira Cavalcanti Ribeiro, Rodrigo de Paula Monteiro and Diego Pinheiro	Regularizing Neural Networks with Noise Injection for Classification of Brain Tumor in Magnetic Resonance Imaging
33	Tue 31 Oct	14:50-15:10	Zherui Tong, Angel Ayala, Eduardo Benitez Sandoval and Francisco Cruz	Urban Autonomous Driving of Special Vehicles with Reinforcement Learning
102	Tue 31 Oct	15:10-15:30	Ernesto Portugal, Angel Ayala, Francisco Cruz, Bruno Fernandes and Sergio Murilo	Time estimation for deep learning model's inference in distributed processing units
97	Tue 31 Oct	15:30-15:50	Jordao da Silva, Thommas Flores, Silvan Junior and Ivanovitch Silva	TinyML-Based Pothole Detection: A Comparative Analysis of YOLO and FOMO Model Performance

Regular Paper Session 8				
Paper #	Date	Time	Authors	Title
98	Tue 31 Oct	14:30-14:50	Arthur de Almeida, Luís Gonçalves, Byron Leite Dantas Bezerra and Cleber Zanchettin	A Semi-Supervised Autoencoder Approach for Efficient Intrusion Detection in Network Traffic
34	Tue 31 Oct	14:50-15:10	Antonio Lundgren, Cristian Arias, Alexandre Pereira, Lucas Santos, Carmelo J. A. Bastos Filho, Bruno Fernandes and Alexandre Maciel	Optimization of Deep Neural Networks for Vehicle Classification
92	Tue 31 Oct	15:10-15:30	Iara Cunha and Marcos Eduardo Valle	Training Single-Layer Morphological Perceptron Using Convex-Concave Programming
79	Tue 31 Oct	15:30-15:50	Daniel Santos, Suelen Ferraz and Tiago Ferreira.	Solving Black-Scholes equations with a neural network

Regular paper Session 9				
Paper #	Date	Time	Authors	Title
50	Tue 31 Oct	16:30-16:50	Vinícius Barros, Celso Júnior and Byron Bezerra	Interpretability of an Automatic Handwritten Signature Verification Model
72	Tue 31 Oct	16:50-17:10	Roberto Douglas Guimaraes de Aquino, Joniel Bastos Barreto, Aline Nascimento Rodrigues, Filipe Alves Neto Verri and Carlos Henrique Forster	CNN classification subject to practical aspects of Search and Rescue UAV missions
55	Tue 31 Oct	17:10-17:30	João Macedo, Byron Bezerra, Alysson Soares, Celso Lopes Junior, Estanislau Lima and Cleber Zanchettin	Evaluating Transformer-based Models in the Information Extraction of Fiscal Documents
5	Tue 31 Oct	17:30-17:50	Antonio Lundgren, Richard Rocha, Byron Bezerra and Carmelo Bastos-Filho	Novel Image Dataset and Proposal of Framework for Visual Semantic Analysis Applied on Object Dangerousness Prediction

Regular paper Session 10				
Paper #	Date	Time	Authors	Title
16	Tue 31 Oct	16:30-16:50	Gabriel Baruque and Wouter Caarls	All Action Updates for Reinforcement Learning with Costly Features
6	Tue 31 Oct	16:50-17:10	Rodrigo Cesar Lira da Silva, Mariana Macedo, Hugo Valadares Siqueira and Carmelo J. A. Bastos Filho	Applying Reinforcement Learning to Combine Multiple Swarm-based Algorithms
108	Tue 31 Oct	17:10-17:30	Ivan Ismael Ríos Villalba, Santiago Arce, Luis Ayala Albertini and Diego Pedro Pinto Roa	Routing and Spectrum Assignment in Elastic Optical Networks through a Hybrid Approach based on K-Shortest Paths and Q-Learning
103	Tue 31 Oct	17:30-17:50	Gabriel Anunciação Kopte, Marcelo Gomes Pereira de Lacerda and Fernando Buarque de Lima Neto	Improving Transferability of Population-Based Learning-to-Optimize Algorithms Through Imitation Learning

Regular paper Session 11				
Paper #	Date	Time	Authors	Title
41	Tue 31 Oct	16:30-16:50	David Barrientos, Bruno Fernandes, Cleyton Rodrigues, Leandro Silva, Allana Rocha and Christiano Sobral	Fine-Tuning MultiFit for Enhanced Legal Sentence Basis Classification
46	Tue 31 Oct	16:50-17:10	Lucas Teixeira, Raquel Calado and Alexandre Maciel	Textual Mining using Deep Learning in official journals
18	Tue 31 Oct	17:10-17:30	Rebeca P. Ederli, Didier Vega-Oliveros, Aurea Soriano-Vargas, Anderson Rocha and Zanoni Dias	Sleep-Wake Classification using Recurrence Plots from Smartwatch Accelerometer Data
81	Tue 31 Oct	17:30-17:50	Luciano Serafim de Souza, Jonathan Henrique Andrade de Carvalho, Henrique Correia Torres Santos and Tiago Alessandro Espinola Ferreira	Search for Multiple Adjacent Marked Vertices on the Hypercube by a Quantum Walk with Partial Phase Inversion

Regular paper Session 12				
Paper #	Date	Time	Authors	Title
56	Wed 1 Nov	14:30-14:50	Jander Rodrigo de S. Vieira, Maria Gabriely L. da Silva, Byron L. D. Bezerra, Sergio C. Oliveira and Eduardo Fontana	A Bayesian Risk Classification System Based on Two Stage Clustering For Flashover Occurrence In High Voltage Insulator String
32	Wed 1 Nov	14:50-15:10	Renan C. Alencar, Lucas Santos, Carmelo J. A. Bastos-Filho, Augusto Viganigo, Eduardo Kalfels, Fernando Vasconcellos, Marcia Rodrigues, Ivan Fretta and Danilo Silva	Evaluating Multi-Level Clustering Approaches to Route Sales Agents
105	Wed 1 Nov	15:10-15:30	Giordano Toscano and Tarcísio Lucas	SSDP-H: Hybrid Approaches for Subgroup Discovery on High-Dimensional Datasets
91	Wed 1 Nov	15:30-15:50	Jimena Ferreira, Ana Inés Torres and Martín Pedemonte	Does Kaizen Programming need a physic-informed mechanism to improve the search?

Regular paper Session 13				
Paper #	Date	Time	Authors	Title
8	Wed 1 Nov	14:30-14:50	Victor Hugo Soares Pereira, Kaike Sa Teles Rocha Alves and Eduardo Pestana de Aguiar	A Machine Learning approach to predict Length of Stay of vehicles in an inbound logistics operation
17	Wed 1 Nov	14:50-15:10	Thiego Buenos Aires de Carvalho, Denis Mayr Lima Martins and Fernando Buarque de Lima Neto	Human-in-the-Loop Evolution of Database Views for Data Exploration
51	Wed 1 Nov	15:10-15:30	Caio Viana, Carlos Araújo and Danilo Araújo	Identifying Physical Unclonable Functions Using Classifier Algorithms
115	Wed 1 Nov	15:30-15:50	Huber Nieto-Chaupis	Outdoor Viral Surveillance and Viruses Mitigation in a Network of Internet of Things

Poster Presentations Schedule

All posters will be presented on October 31st in two time slots: 10:00-10:30 and 16:00-16:30. All papers accepted for the poster format will be presented in both time slots.