



## 21st Mexican International Conference on Artificial Intelligence



All presentations are of 30 minutes including questions

\*\*\*\* ALL TIMETABLES ARE EXPRESSED IN CDMX TIME

<b>ROOM 1</b> <a href="https://itesm.zoom.us/j/3635520913">https://itesm.zoom.us/j/3635520913</a>	<b>ROOM 2</b> <a href="https://itesm.zoom.us/my/gochoaruiz">https://itesm.zoom.us/my/gochoaruiz</a>	<b>ROOM 3</b> <a href="https://itesm.zoom.us/j/7316833453">https://itesm.zoom.us/j/7316833453</a>	<b>ROOM 4</b> <a href="https://itesm.zoom.us/j/2880072991">https://itesm.zoom.us/j/2880072991</a>	<b>ROOM 5</b> <a href="https://cic-ipn-mx.zoom.us/my/smia1">https://cic-ipn-mx.zoom.us/my/smia1</a>
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	Day 1 – Monday, October 24th					TUTORIALS & WORKSHOPS (DAY 1)
<b>Time</b>						
09:00 - 10:00 10:00 - 11:00 11:00 - 12:00	<b>4th Workshop on New Trends in Computational Intelligence and Applications (CIAPP 2022)</b> Efren Mezura <a href="https://ciapp.bi-level.org/2022/">https://ciapp.bi-level.org/2022/</a>	<b>XV Workshop on Hybrid Intelligent Systems (HIS 2022)</b> Martín Montes Rivera <a href="https://hisworkshop.com.mx/">https://hisworkshop.com.mx/</a>	<b>Tutorial: Selection Hyper-heuristics: A hands-on approach using Matlab and the MathH framework</b> Iván Amaya Tecnológico de Monterrey	<b>Tutorial: Artificial legal intelligence for law compliant generation of digital art</b> Jesús Manuel Niebla Zatarain Universidad Autónoma de Sinaloa		
12:00 - 13:00						
13:00 - 14:00	Lunch (Free time)					
14:00 - 15:00 15:00 - 16:00	Lunch (Free time)					
16:00 - 17:00	<b>XV Workshop on Intelligent Learning Environments (WILE 2022)</b> Lucía Barrón <a href="https://wile.mozello.com/">https://wile.mozello.com/</a>					
17:00 - 18:00 18:00-19:00						
Time	Day 2 – Tuesday, October 25th					TUTORIALS & WORKSHOPS (DAY 2)
09:00 - 10:00 10:00 - 11:00						
11:00 - 12:00	<b>Tutorial: How to train your d...detector, Computer vision and object detection</b> Gilberto Ochoa-Ruiz Tecnológico de Monterrey	<b>Tutorial: Hybrid AI Systems Grounded on Qualitative Spatio-Temporal Reasoning</b> Michael Sioutis University of Bamberg	<b>Doctoral Consortium</b> Chairs: Francisco Javier Cantú Ortiz & Miguel Gonzalez Mendoza Tecnologico de Monterrey			
12:00 - 13:00 13:00 - 14:00	Lunch (Free time)					
14:00 - 15:00 15:00 - 16:00 16:00 - 17:00						
17:00 - 18:00 18:00-20:00						

**MAIN CONFERENCE PROGRAM OVERVIEW**

Time	Day 3 – Wednesday October 26th					MAIN CONFERENCE (DAY 1)
	<b>Opening Ceremony</b>					
09:00 - 09:30 09:30 - 10:00	Coffee Break					
10:00 - 11:00	<b>Keynote Talk 1: Dr. Miguel González Mendoza (Tecnológico de Monterrey)</b>  <b>The need of effective data flows for Machine Learning and Deep Learning; from Structure, Learning to Performance on Applications</b>					
11:00 - 11:30	Coffee Break					
11:30 - 13:30	<b>26-1: Industrial Applications 1</b> Session Chair: Bella Martínez Seis	<b>26-2: Machine Learning 1</b> Session Chair: Alberto Espinoza Juárez	<b>26-3: Image Processing and Pattern Recognition</b> Session Chair: Roberto Antonio Vázquez	<b>26-4: Natural Language Processing 1</b> Session Chair: Miguel Ángel Soto		
13:30 - 15:30	Lunch					
15:30 - 17:30	<b>26-8: Panel Nuevo León AI State of the Art</b> Session Chair: Leobardo Morales	<b>26-6: Evolutionary and Metaheuristic Algorithms 1</b> Session Chair: Hiram Ponce	<b>26-7: Deep Learning</b> Session Chair: Lourdes Martínez	<b>26-5: Intelligent Applications 1</b> Session Chair: Éricka Deyanira Ovando Martínez		
17:30 - 20:00	<b>Poster Session &amp; Welcome Cocktail</b>					
Time	Day 4 – Thursday October 27th					
09:00 - 10:00	<b>Keynote Talk 2: Dr. Rem Collier (University College Dublin)</b>  <b>Combining Microservices, REST, Linked Data and Multi-Agent Systems</b>					
10:00 - 10:30	Coffee Break					
10:30 - 12:30	<b>27-4: Panel Nuevo León AI Ecosystem</b> Session Chair: Leobardo Morales	<b>27-2: Natural Language Processing 2</b> Session Chair: César Macías Sánchez	<b>27-3: Medical Applications 1</b> Session Chair: José Eduardo Valdez Rodríguez	<b>27-1: Intelligent Applications 2</b> Session Chair: Félix Castro		
12:30 - 13:30	<b>Engaging Underrepresented Communities in ML in LATAM through supercomputing access: the LXAI and Nvidia Super Computing program</b> Gilberto Ochoa-Ruiz Tecnológico de Monterrey	Lunch				

13:30 - 15:30	Lunch
16:00 - 19:00	Touristic tour to "Parque Fundidora"
20:00 - 23:00	Awarding Ceremony / Conference Dinner

**Time Day 5 – Friday October 28th**

09:30 - 10:30	<b>Keynote Talk 3: Prof. Nikhil R. Pal (Indian Statistical Institute) - Virtual</b> <b>In this "bigger the better" era, how relevant is dimensionality reduction? – A fuzzy answer!</b>				
10:30 - 11:00	Coffee Break				
11:00 - 13:00	<b>28-1: Robotics</b> Session Chair: Hiram Ponce	<b>28-2: Natural Language Processing 3</b> Session Chair: Diana Laura Jiménez	<b>28-3: Evolutionary and Metaheuristic Algorithms 2</b> Session Chair: Obdulia Pichardo	<b>28-4: Machine Learning 2</b> Session Chair: Omar García	<b>Tutorial: Mapping, Planning and Navigation with ROS for Autonomous Robots (Part 1)</b> Antonio Marín-Hernández Universidad Veracruzana
13:00 - 15:00	Lunch				
15:00 - 16:00	<b>Keynote Talk 4: Dra. Xiaou Li Zhang (CINVESTAV)</b> <b>Machine Learning and Big Data Analytics for Sustainable Food-Energy-Water Nexus</b>				
16:00 - 16:30	Coffee Break				
16:30 - 18:30	<b>28-5: Machine Learning 3</b> Session Chair: Olaronke Oluwayemisi	<b>28-6: Medical Applications 2</b> Session Chair: José Eduardo Valdez	<b>28-7: Natural Language Processing 4</b> Session Chair: Marco Antonio Cardoso	<b>28-8: Industrial Applications 2</b> Session Chair: Jorge Mario Cruz Duarte	<b>Tutorial: Mapping, Planning and Navigation with ROS for Autonomous Robots (Part 2)</b> Antonio Marín-Hernández Universidad Veracruzana
18:30 - 19:00	Closing Ceremony				

MAIN CONFERENCE (DAY 3)

**Time Day 6 – Saturday October 29th**

10:00 - 18:00	Academic activities and cultural program (Tour to the Magical Town "Santiago" and "Cola de Caballo")
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