

Conference Agenda

Session Overview

Date: Monday, 24/Nov/2025

8:00am - 8:30am	Registration Location: Centro Cultural Universitario	
8:30am - 9:00am	Welcome Location: Centro Cultural Universitario	
9:00am - 10:00am	Invited Speaker I: Quantum Lattice Boltzmann Methods Location: Centro Cultural Universitario Chair: Juan Carlos Cajas Garcia	
10:00am - 10:20am	Coffee Break Location: Centro Cultural Universitario	
10:20am - 11:40am	HPC+AI-I: Convergence of Artificial Intelligence and High-Performance Computing for Computational Fluid Dynamics Location: Centro Cultural Universitario	OT-I: Performance Improvements of Parallel Applications Location: Centro Cultural Universitario Chair: Juan Manuel Rivero
11:40am - 12:00pm	Coffee Break Location: Centro Cultural Universitario	
12:00pm - 1:00pm	Atmosphere-I: High Performance Computing and AI for Atmospheric and Oceanic Flows on Exascale Computers Location: Centro Cultural Universitario	OT-II: Parallel Solvers Location: Centro Cultural Universitario
1:00pm - 2:30pm	Lunch	
3:00pm - 4:30pm	Social Event: Gran Museo del Mundo Maya Location: Gran Museo del Mundo Maya	

Date: Tuesday, 25/Nov/2025

9:00am - 10:00am	Invited Speaker II: Efficient Coupled Multiphysics Simulations Based On Hierarchical Cartesian Meshes Location: Centro Cultural Universitario Chair: Juan Carlos Cajas Garcia	
10:00am - 10:20am	Coffee Break Location: Centro Cultural Universitario	
10:20am - 11:40am	Atmosphere-II: High Performance Computing and AI for Atmospheric and Oceanic Flows on Exascale Computers Location: Centro Cultural Universitario	OT-III: Large Scale and Industrial Applications Location: Centro Cultural Universitario
11:40am - 12:10pm	Coffee Break Location: Centro Cultural Universitario	
12:10pm - 1:30pm	Biomedicine: HPC Modelling of Physiological Flows: Multi-Scale and Multi-Physics Simulations in Biomedicine Location: Centro Cultural Universitario	OT-IV: GPU-Accelerated Simulations-I Location: Centro Cultural Universitario
1:30pm - 3:00pm	Lunch	
3:00pm - 3:30pm	Keynote: The Evolution of Environmental Modeling in the Era of High-Performance Computing Location: Centro Cultural Universitario Chair: Juan Carlos Cajas Garcia	
3:30pm - 3:40pm	Short Break Location: Centro Cultural Universitario	
3:40pm - 5:00pm	HPC+AI-II: Convergence of Artificial Intelligence and High-Performance Computing for Computational Fluid Dynamics Location: Centro Cultural Universitario	
7:00pm - 10:00pm	Conference Dinner Location: Museo de la Gastronomía Yucateca	

Date: Wednesday, 26/Nov/2025

9:00am - 10:00am	Invited Speaker III: High Performance Computing at UNAM: New Paradigm Location: Centro Cultural Universitario Chair: Juan Carlos Cajas Garcia	
10:00am - 10:20am	Coffee Break Location: Centro Cultural Universitario	
10:20am - 11:40am	HPC+AI-III: Convergence of Artificial Intelligence and High-Performance Computing for Computational Fluid Dynamics Location: Centro Cultural Universitario	OT-V: GPU-Accelerated Simulations-II Location: Centro Cultural Universitario
11:40am - 12:10pm	Closing Ceremony Location: Centro Cultural Universitario	