

Conferences

	Wednesday September 2	Thursday September 3	Friday September 4
8:30	Opening Moderator: Francisco Toral		
9:30	Reproducibility of published scientific research on HPC: Myth or reality?	Accelerating AI for Data-Driven Scientific Discovery	Parallel Biological Sequences Comparison in GPU Clusters
10:00	Speaker: Hakizumwamy Birali Moderator: Jaime Puente	Speaker: Nick Nystrom & Paola Buitrago Moderator: Harold Castro	Speaker: Alba Cristina Alves Moderator: Carla Osthoff
10:30			
11:00	Research Desktop - A Remote Desktop for Computational and Storage Intensive Research Speaker: Robert Henschel Sponsor technical talk: CENDIO	HPC & AI: What we learnt from COVID-19 Speaker: Eng Lim Goh Sponsor technical talk: HPE	InfiniBand In-Network Computing Technology and Roadmap Speaker: Scot Schultz Sponsor technical talk: NVIDIA
11:30	Swarm Intelligence for Dynamic Optimization Problems Speaker: Shengxiang Yang Moderator: Alvaro de la Ossa	Sponsor study & Marketing talk: HPE	AI meets humans Speaker: Markus Eger Moderator: Alvaro de la Ossa
12:00		Improving data center efficiency with GPU virtualization: the rCUDA case	
12:30	Sponsor study & Marketing talk	Speaker: Federico Silla Moderator: Ginés Guerrero	The New World of Scientific Simulations Speaker: Gerardo Cisneros-Stoianowski Sponsor Technical Talk: HPC-AI Advisory
14:00	Track High Performance Computing Moderator: Dennis Cazar	Track Artificial Intelligence using HPC Moderator: Sergio Nesmachnow	Scalac Panel Moderator : Luis Eliecer, Alvaro de la Ossa
14:30			
15:00	Exploiting Concurrency in GPU's Speaker: Cristiana Barbosa Bentes Moderator: Carla Osthoff	AI in the Data Center: from a single (GPU node to Exascale) Speaker: Miro Hodak Sponsor: LENOVO	
15:30		Track Artificial Intelligence Using HPC Moderator: Esteban Mocskos	Awards & Presentation CARLA2021 Presentation : Lizette Dueñas Robles Moderator: Carlos Jaime Barrios
16:00	Track High Performance Computing Moderator: Isidoro Gitler		Close
16:30		Professional Services and Liquid Cooling for HPC systems Speaker: Milind Salokhe Sponsor study & Marketing case talk: LENOVO	
17:00	High Performance Computing Posters Moderator: Esteban Meneses		
17:30			

Workshops

	Monday September 7	Tuesday September 8	Wednesday September 9	Thursday September 10	Friday September 11
8:00	Advanced and High Performance Computing Trends in Latin America Chairs: <ul style="list-style-type: none"> • Oscar Carrillo (INSA-Lyon, France) • Harold Castro (UniAndes, Colombia) • Carlos J. Barrios (SCALAC) 		Advanced Computing Reaction against Pandemic Chairs: <ul style="list-style-type: none"> • Carlos Calderon Cordova (IEEE R9, Ecuador) • Francisco Jose Martinez (UIS, Colombia) • Rony Cabrera (IEEE R9, Ecuador) • Carlos J. Barrios (SCALAC) 	Good practices in HPC Management Chairs: <ul style="list-style-type: none"> • Ginés Guerrero (NLHPC - Chile) • Esteban Mocksos (UBA - Argentina) • Gilberto Diaz (UIS - Colombia) 	HPC Collaboration between Europe and Latin America Chairs <ul style="list-style-type: none"> • Ulises Cortes (BSC, Spain) • Luis Cadenas (RedCLARA) • Carlos J. Barrios (SCALAC)
8:30					
9:00					
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10:00	Latin American Women on HPC <ul style="list-style-type: none"> • A brief history of Summit's pre-production life - Veronica Melesse Vergara • Escalabilidad y tolerancia a fallos: Grandes desafíos para las arquitecturas en la nube - Cristina Abad • Heavy tailed rain distributions and its implications - Sheila Serrano • Modelamiento usando técnicas de machine learning: Aplicaciones en el área de recursos naturales - Johanna Orellana Alvear • Discussion Chairs: <ul style="list-style-type: none"> • Carla Osthoff, (Laboratório Nacional de Computação Científica, Brazil) • Daniela Elisabet Ballari • Johanna Marlene Orellana Alvear 	Latin American Women on HPC <ul style="list-style-type: none"> • Women in science and technology: the inconvenient truth - Marcia Barbosa • El Poder de las Redes: el ejemplo de REMCI - Claudia Segovia • ¿Cómo involucrar a niñas y niños en áreas STEM? - Andrea Carrión Herrera • La hipertrofia de una comunidad: R-Ladies, el ejemplo de un músculo en crecimiento - Zulemma Bazurto Blacio • Discussion Chairs: <ul style="list-style-type: none"> • Carla Osthoff, (Laboratório Nacional de Computação Científica, Brazil) • Daniela Elisabet Ballari • Johanna Marlene Orellana Alvear 			
10:30					
11:00					

Tutorials

	Wednesday September 9	Thursday September 10	Friday September 11	Thursday September 17
12:00				Introduction to GPU Programming using OpenACC Pre-requisites: <ul style="list-style-type: none"> • Previous programming experience (C/C++, Fortran) • Laptop/desktop with ssh client (to log in to remote system) • Basic familiarity with UNIX/Linux (e.g., to navigate the file system) • Familiarity with a command line text editor (e.g., vim, emacs, nano) Duration: Hands-on: 2 hours (1-3pm ET / 12-2pm GMT-5)
12:30				
13:00				
13:30				
14:00	Introduction to Parallel Programming using OpenMP Pre-requisites: Basic knowledge of C language, linux commands Duration: <ul style="list-style-type: none"> • 4 hours (estimated) previous material lecture. • 4 hours hands-on practice. 14:00 to 18:00 GMT -5 Languajes: <ul style="list-style-type: none"> • Materials in English. • Hands-on practice in Spanish, basic Portuguese spoken too Instructor: Robinson Rivas Suárez	Introduction to Parallel Programming using MPI Pre-requisites: Basic knowledge of C language, parallel programming and linux commands Duration: <ul style="list-style-type: none"> • 4 hours (estimated) previous material lecture. • 4 hours hands-on practice. 14:00 to 18:00 GMT -5 Languajes: <ul style="list-style-type: none"> • Materials in English. • Hands-on practice in Spanish, basic Portuguese spoken too Instructors: <ul style="list-style-type: none"> • Robinson Rivas Suárez • Jaime Parada Delgado • Esteban Mosckos 	Fundamentals of GPU Computing with C/C++ and CUDA Pre-requisites: Basic knowledge of C language, parallel programming and linux commands Duration: <ul style="list-style-type: none"> • 3 hours (estimated) previous material lecture • 2 hours individual work Free- On Live Languajes: <ul style="list-style-type: none"> • Materials in English. • Hands-on practice in Spanish, English Instructors: <ul style="list-style-type: none"> • Carlos J. Barrios Hernandez • Sergio Gelvez 	Languajes: Hands-on practice in English Instructors: <ul style="list-style-type: none"> • Verónica G. Melesse Vergara
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