

**Program CARLA 2014, USM, Edificio A, Salón de Honor, 20 – 22 October, 2014.**

Monday 20 October		
<b>Morning Session</b> <b>Chair:</b> <b>Gonzalo Hernández</b>	08:00 - 10:00 hrs.	Registration
	10:00 - 10:15 hrs.	Welcoming Remarks Gonzalo Hernández, General Chair CARLA 2014.
	10:15 - 11:00 hrs.	Keynote 1: Enrique Alba (Universidad de Málaga, Spain)
	11:00 - 11:30 hrs.	Coffee Break (Hall Edificio A)
	11:30 - 12:15 hrs.	Keynote 2: Francisco Förster (Universidad de Chile, Chile)
	12:15 - 13:00 hrs.	Keynote 3: José Luis Gordillo (Universidad Nacional de México, México)
13:00 - 14:30 hrs.	Lunch	
<b>Afternoon Session</b> <b>Chairs:</b> <b>Carlos García Garino</b> <b>&amp;</b> <b>Claudio Torres</b>	14:30 - 16:30 hrs.	Multiobjective energy-aware datacenter planning accounting for power consumption profiles S. Nesmachnow, C. Perfumo and I. Goiri
		An empirical study of the robustness of energy-aware schedulers for high performance computing systems under uncertainty S. Iturriaga, S. García and S. Nesmachnow
		Adaptive Spot-instances Aware Autoscaling for Scientific Workflows on the Cloud D. Monge, C. García Garino
		Flexicache: Highly Reliable and Low Power Cache under Supply Voltage Scaling G. Yalcin, A. Seyed, O. Unsal, A. Cristal
	16:30 - 17:00 hrs.	Coffee Break (Hall Edificio A)
	17:00 - 19:00 hrs.	A Parallel Discrete Firefly Algorithm on GPU for Permutation Combinatorial Optimization Problems P. Vidal, A. Olivera
		A Parallel Multilevel Data Decomposition Algorithm for Orientation Estimation of Unmanned Aerial Vehicles C. Paz, S. Nesmachnow, J. Toloza
19:00 - 19:30 hrs.	Opening Ceremony CARLA 2014.	

Tuesday 21 October		
<b>Morning Session</b>  Chair: Carlos Jaime Barrios	09:00 - 10:00 hrs.	<b>Keynote 4:</b> Carsten Trinitis (Technical University of Munich, Germany)
	10:00 - 11:00 hrs.	<b>Keynote 5:</b> Sergio Nesmachnow (Universidad de la República, Uruguay)
	11:00 - 11:30 hrs.	<b>Coffee Break (Hall Edificio A)</b>
	11:30 - 13:00 hrs.	Alya multiphysics simulations on Intel's Xeon Phi accelerators M. Vázquez, G. Houzeaux, F. Rubio, C. Simarro  MBSPDiscover: An Automatic Benchmark for MultiBSP Performance Analysis M. Alaniz, S. Nesmachnow, B. Goglin, M. Printista, V. Gil, S. Iturriaga  SI-based Scheduling of Parameter Sweep Experiments on Federated Clouds E. Pacini, C. Mateos, C. García Garino
	13:00 - 14:30 hrs.	<b>Lunch</b>
	14:30 - 15:15 hrs.	Talk SIASA
	15:15 - 16:00 hrs.	Talk Seagate
	16:00 - 17:00 hrs.	Distributed cache strategies for machine learning classification tasks over cluster computing resources J. Arévalo, R. Ramos Pollán, F. González Osorio  A flexible strategy for distributed and parallel execution of a monolithic large-scale sequential application F. Navarro, C. González, O. Peredo, G. Morales, A. Egaña, J. Ortiz  A Model to Calculate Amazon EC2 Instance Performance in Frost Prediction Applications L. Iacono, J. Vázquez, C. García Garino, I. Martín
	17:00 - 17:30 hrs.	<b>Coffee Break (Hall Edificio A)</b>
	17:30 – 20:00 hrs.	Synthetic Aperture Radar Signal Processing using GPGPU M. Denham, J. Areta, I. Vaquila, F. G. Tinetti  Parallel Implementation of an Evolutionary Algorithm for Function Minimization on GPGPU O. Alvarado-Nava, H. Chable, E. Rodriguez-Martinez, B. Almeida  Algorithm model and execution based on Petri Nets in an heterogeneous parallel computer G. Wolfmann, A. De Giusti  PISKa: A Parallel Implementation of Spatial Kappa I. Fuenzalida, A. Martinand, T. Perez-Acle  Indexing and Exhaustive Searching in Metric Spaces using a Xeon Phi Coprocessor C. Toledo, R. Barrientos, A. Ávila, J. Gomez  A Multicore Workflow for Inducing Data Driven GNSS Positioning Models S. Sánchez-Naranjo, R. Ramos-Pollán, F. González  Micropolar fluid modelling of nanofluids using divergence conforming B-spline space A. Sarmiento, A. Cortes, D. Garcia,, L. Dalcin, N. Collier, V. Calo
	17:00 – 20:00 hrs.	Joint Meeting CARLA + SCALAC Members

**Wednesday 22 October**

<b>Morning Session</b> Chair: Nicolas Wolovick	09:00 - 10:00 hrs.	Keynote 6: Mario Storti (CONICET and Universidad Nacional del Litoral, Argentina)
	10:00 – 11:00 hrs.	Keynote 7: Yuri Ivanov (Universidad Técnica Federico Santa María, Chile)
	11:00 - 11:30 hrs.	Coffee Break (Hall Edificio A)
	11:30 - 13:00 hrs.	Efficient Symmetric Band Matrix-Matrix Multiplication on GPUs E. Dufrechou, P. Ezzatti, E. Quintana-Ortí, A. Remón
		Implications of CPU Dynamic Performance and Energy-Efficient Technologies on the Intrusiveness Generated by Desktop Grids Based on Virtualization G. Sotelo, E. Rosales, H. Castro
		Ensemble Learning of Run-time Prediction Models for Data-intensive Scientific Workflows D. Monge, M. Holec, F. Zelezny, C. García Garino
13:00 - 15:00 hrs. Lunch		
<b>Afternoon Session</b> Chair: Tomás Pérez-Acle	15:00 - 16:00 hrs.	Efficient fluorescence microscopy analysis over a volunteer grid/cloud infrastructure M. da Silva, S. Nesmachnow, M. Geier, E. Mocskos, J. Angiolini, V. Levi, A. Cristobal
	LARTop50 2014 List M. Printista	
	16:00 - 16:30 hrs.	Coffee Break (Hall Edificio A)
	16:30 – 17:15 hrs.	Talk INTEL
	17:15 – 19:00 hrs.	INTEL Workshop: Parallel Programming with Xeon PHI



[CARLA 2014](#): Latin American HPC Conference

First HPCLATAM – CLCAR Joint Conference

Universidad Santa María, Valparaíso, Chile

20 - 22 October 2014



Organized by: [CCTVal \(USM\)](#) & [NLHPC \(UCHILE\)](#)



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