

## Vecpar 2018 - Agenda

Time BRST (UTC-2)	Monday 17 09 2018
8:30-9:00	Registration
9:00-9:30	Opening Session
9:30-10:30	Invited Talk - Dr. Gabriel Wainer <b>"Simulation Everywhere"</b> Chair: Hermes Senger
10:30-11:00	Coffee Break
Session Chair: Luiz Capretz	
11:00-12:30	Xinzhe Wu, Serge G. Petiton and Yutong Lu. <a href="#">A Parallel Generator of Non-Hermitian Matrices computed from Given Spectra</a>
	Gabriel Freytag, Philippe Olivier Alexandre Navaux, João Vicente Ferreira Lima, Lucas Mello Schnorr and Paolo Rech. <a href="#">Non-Uniform Domain Decomposition of the Lattice-Boltzmann Method for Heterogeneous Accelerated Processing Units</a>
	Romulo Silva, Benaia Lima, Jose Camata, Renato Elias and Alvaro Coutinho. <a href="#">Communication-Free Parallel Mesh Multiplication for Large Scale Simulations</a>
12:30-14:00	Lunch
Session Chair: Hermes Senger	
14:00-16:00	Antonio-Jose Lazaro-Muñoz, Bernabé López-Albelda, Jose María González-Linares and Nicolás Guil Mata. <a href="#">A Scheduling Theory Framework for GPU Tasks Efficient Execution</a>
	Elliod Cieza, Luan Teylo, Yuri Frota, Cristiana Bentes and Lúcia Drummond. <a href="#">A GPU-based Metaheuristic for Workflow Scheduling on Clouds</a>
	William McDoniel and Paolo Bientinesi. <a href="#">A Timer-Augmented Cost Function for Load Balanced DSMC</a>
	Tiago Marques Do Nascimento, Rodrigo Santos and Marcelo Lobosco. <a href="#">Performance Evaluation of Two Load Balancing Algorithms for Hybrid Clusters</a>
16:00-16:30	Coffee Break
16:30-17:30	Invited Talk - Dr. Richard Vuduc <b>"An algorithm, a data structure, and a machine that all (try to) move or store fewer bits"</b> Chair: Osni Marques
17:30-18:00	Industry Talk - HPE / Intel
Reception Cocktail	

Time BRST (UTC-2)	Tuesday 18 09 2018	
	Auditorium	
09:00-10:00	Invited Talk - Dr. Kentaro Sano (Remote Talk) <b>"FPGA-based Data-Flow Computing for High-Performance Numerical Simulation"</b> Chair: Silvio Stanzani	
10:00-10:30	Coffee Break	
Session Chair: Carla Osthoff Barros		
10:30-12:00	Matthias Diener, Daniel Bodony and Laxmikant Kale. <a href="#">Accelerating scientific applications on heterogeneous systems with HybridOMP</a>	
	Tiago Carneiro Pessoa, Jan Gmys, Nouredine Melab, Francisco Heron de Carvalho Junior, Pedro Pedrosa Rebouças Filho and Daniel Tuytens. <a href="#">Dynamic Configuration of CUDA Runtime Variables for CDP-based Divide-and-Conquer Algorithms</a>	
	Ricardo Leite and Ricardo Rocha. <a href="#">LRMalloc: a Modern and Competitive Lock-Free Dynamic Memory Allocator</a>	
12:00 - 13:30	Lunch	
13:30-15:30	Panel "HPC&AI for Industry - Problems & Solutions"	
15:30-16:30	Industry Talk - Huawei	
16:30-17:00	Coffee Break	
Session Chair: Claudio Schepke		
17:00-18:00	Silvio Stanzani, Raphael C�be, Jefferson Fialho, Rog�rio Iope, Marco Gomes, Artur Baruchi and Julio Amaral. <a href="#">Towards a Strategy for Performance Prediction on Heterogeneous Architectures</a>	
	Luiz Fernando Capretz. <a href="#">High-Performance Computing for Predictive Models in Healthcare</a>	
	Hans Johansen and Osni Marques. <a href="#">A methodology for batching matrix kernels in HPC applications</a>	
Conference Dinner		

Time BRST (UTC-2)	Wednesday 19 09 2018	
	Auditorium	
09:00-10:00	Invited Talk - Dr. Tal Ben-Num <b>“Demystifying Parallel and Distributed Deep Learning”</b> Chair: Rogério Iope	
10:00-10:30	Coffee Break	
Session Chair: Osni Marques		
10:30-12:00	Adriano Garcia, Claudio Schepke, Alessandro Girardi and Sherlon Almeida Da Silva. <a href="#">A New Parallel Benchmark for Performance Evaluation and Energy Consumption</a>	
	Rafael Gauna Trindade and João Vicente Ferreira Lima. <a href="#">Performance Evaluation of Deep Learning Frameworks over Different Architectures</a>	
	Lucas Leandro Nesi, Lucas Mello Schnorr and Philippe Olivier Alexandre Navaux. <a href="#">Design, Implementation and Performance Analysis of a CFD task-based Application for Heterogeneous CPU/GPU Resources</a>	
12:00-13:00	Lunch	
Session Chair: Silvio Stanzani		
13:00-14:00	Gesiel Rios Lopes, Paulo Sergio Lopes de Souza and Alexandre C. B. Delbem. <a href="#">A Systematic Mapping on High-Performance Computing for Protein Structure Prediction</a>	
	Frederico Cabral, Carla Osthoff Barros, Roberto Pinto Souto, Gabriel Costa, Sanderson L. Gonzaga de Oliveira, Diego Brandao and Mauricio Kischinhevsky. <a href="#">An improved OpenMP implementation of the TVD--Hopmoc method based on a cluster of points</a>	
	Mehmet Akif Aydogmus and M. Oğuzhan Kulekci. <a href="#">Optimizing Packed String Matching on AVX2 Platform</a>	
14:00-15:00	Invited Talk - Dr. Gerard Gorman <b>“Code generation for finite difference and data inversion – where angles fear to thread.”</b> Chair: Hermes Senger	
15:00-15:30	Coffee Break	
15:30-16:00	Closing Session	