

**XI Brazilian Workshop on Continuous Optimization. Celebrating Carlos Humes Junior's 70th birthday  
Manaus, AM,Brazil, May 22- 27, 2016**

**Program at a glance**

Hour	Monday, 23		Tuesday, 24		Wednesday, 25		Thursday, 26	Friday, 27	
8:00 - 8:30	Check in								
8:30 - 9:15	Opening Cerimony								
9:15 - 10:00	<b>Chair: Benar Svaiter</b> <b>P1 - Ernesto Birgin</b> Evaluation Complexity for Nonlinear Constrained Optimization Using Unscaled KKT Conditions and High-Order Models		<b>Chair: Clóvis Gonzaga</b> <b>P4 - Renato Monteiro</b> Regularized HPE-type methods for solving monotone inclusions with improved pointwise iteration-complexity bounds and their regularized ADMM variants		<b>Chair:Suzana Scheimberg</b> <b>P7 - Mikhail Solodov</b> Critical Solutions of Nonlinear Equations			<b>Chair: Flávia Jacinto</b> <b>P10 - Juan Enrique Martínez-Legaz</b> On the Voronoi mapping	
10:00 - 10:30	Coffee Break		Coffee Break		Coffee Break			Coffee-break	
10:30 - 11:15	<b>Chair: Marcia Fampa</b> <b>P2 - Roberto Cominetti</b> Optimal convergence rates for Karsnoselskii-Mann fixed-point iterations		<b>Chair:Claudia Sagastizábal</b> <b>P5 - Immanuel Bomze</b> Tightening Dual Bounds for QCQPs by Copositivity		<b>Chair: Renato Monteiro</b> <b>P8 - Benar Svaiter</b> Iteration-complexity of a Rockafellar's proximal method of multipliers for convex programming based on second-order approximations			<b>Chair: Carlos Humes</b> <b>P11- Claudia Sagastizábal</b> Primal-Dual Methods in Stochastic Programming with Application to Energy Problems	
11:15 - 12:00	<b>Chair: Elizabeth Karas</b> <b>P3 - Clóvis Gonzaga</b> TBA		<b>Chair: Alfredo Iusem</b> <b>P6- José Mario Martínez</b> A variable-norm trust-region method for unconstrained minimization and its cubic-regularization version		<b>Chair: Juan E. Martínez Legaz</b> <b>P9 - Boris Mordukhovich</b> Optimal Control of the Sweeping Process			<b>Chair: Boris Mordukhovich</b> <b>P12- Alfredo Iusem</b> Extragradient methods for stochastic variational inequalities: convergence results and complexity analysis	
12:00 - 14:00	Lunch Time		Lunch Time		Lunch Time			Lunch Time	
	<b>Sessions Mo 1A: Nonlinear Optimization</b> <b>Chair: S.Santos</b>	<b>Sessions Mo 1B: Applications</b> <b>Chair: W. Oliveira</b>	<b>Sessions Tu 1A: Convex Analysis and Optmization</b> <b>Chair: W.Sosa</b>	<b>Sessions Tu 1B: Assorted Topics I</b> <b>Chair: E.Karas</b>	<b>Sessions We 1A: Gradient and Descent Methods</b> <b>Chair: M. Fukuda</b>	<b>Sessions We 1B: Assorted Topics II</b> <b>Chair: P.Silva e Silva</b>		<b>Sessions Fr 1A : Newton Method and Related Topics</b> <b>Chair: O.P.Ferreira</b>	<b>Sessions Fr 1B: Optimization on Riemmanian Manifolds</b> <b>Chair: P. Santos</b>
14:00 - 14:30	<b>L. Bueno</b> Sequential Equality-constrained Optimization for Nonlinear Programming	<b>M. Dumett</b> Compressed Sensing for Kirchhoff Migration	<b>J. Bello Cruz</b> A Relaxed-Projection Splitting Algorithm for solving nonsmooth Variational Inequalities	<b>M. Fampa</b> Generalization of Ellipsoid bounds for Nonconvex Quadratic Integer Problems	<b>G.Grapiglia</b> On the Worst-Case Complexity of Projected Gradient Methods for Convex Constrained Multiobjective Optimization	<b>J.A. Ramos Flor</b> Optimality Conditions and Constraint Qualifications for Mathematical Programs with Equilibrium Constraints		<b>M. Gonçalves</b> A Newton Conditional Gradient Method for Constrained Nonlinear Systems	<b>G. Bento</b> An Approach to the Proximal Point Method on Riemannian Manifolds
14:30 - 15:00	<b>G. Haeser</b> On the Global Convergence of Nonlinear Optimization Algorithms Under Weak Assumptions	<b>D. Fernández</b> Parameter Estimation for a Tumor Invasion PDE Model	<b>F. Lara</b> Generalized Asymptotic Functions in Generalized Convexity Theory	<b>R. Freitas</b> On Special Vertex Coloring Models in Graphs Using Distance Geometry	<b>R. Lopes</b> A Block-Coordinate Descent Method with Identification of Active Constraints for Huge-Scale Optimization	<b>J.Y. Yuan</b> Complexidade de Pior Caso do Método de NSC		<b>A. Izmailov</b> A Globally Convergent LP-Newton Method	<b>J.Cruz Neto</b> Convex Functions on Complete Riemannian Manifolds
15:00 - 15:30	<b>J. Morales</b> On the Design and Implementation of SQP Methods for Large-Scale Nonlinear Optimization	<b>W. Oliveira</b> Scenario Reduction via Quadratic Process Distances Applied to Hydrothermal Scheduling Problems	<b>J. Melo</b> A Projection-Free Accelerated Method for Convex Optimization	<b>J. Júdice</b> Second Order Cone Eigenvalue Complementarity Problems	<b>L. Simões</b> Gradient Sampling Methods for Unconstrained Non-Smooth Minimization Problems	<b>P. Soares</b> Maximal Monotonicity of Bifunctions on Hadamard Manifolds		<b>L. Prudente</b> On the Global Convergence of the Inexact Semi-Smooth Newton Method for Absolute Value Equation	<b>P. Santos</b> An Extragradient Method for Equilibrium Problems on Hadamard Manifolds
15:30 - 16:00	<b>S. Santos</b> On the Solution Of Linearly Constrained Minimization Problems with Noisy Objective Function		<b>W. Sosa</b> Arrow-Debreu Condition from Optimization Theory	<b>E. Karas</b> Algebraic Rules for Computing the Regularization Parameter of the Levenberg-Marquardt Method	<b>M. Fukuda</b> A Comparative Study of Steepest Descent Methods for Strongly Convex Quadratic Functions	<b>P. Silva e Silva</b> Strict Constraint Qualifications and Sequential Optimality Conditions for Constrained Optimization		<b>O.P. Ferreira</b> On the Kantorovich's Theorem for Newton's Method for Solving Strongly Regular Generalized Equation	
16:00 - 16:30	Coffee Break		Coffee Break		Coffee Break			Coffee Break	
16:30 - 17:00	<b>Sessions Mo2A: Vector and Multi-objective Optimization Lagrangians</b> <b>Chair: S.Souza</b>	<b>Sessions Mo 2B: Numerical Optimization</b> <b>Chair: F. Sobral</b>	<b>Chair: Paulo Silva e Silva</b> <b>Celebration of Prof. Carlos Humes' 70<sup>th</sup> birthday</b> <b>16:30 - 17:30</b>		<b>Poster Sessions</b> <b>16:30 - 17:30</b> <b>E. E. A. Batista</b> Enlargement of Monotone Vector Fields and na Inexact Proximal Point Method for Variational Inequalities in Hadamard Manifolds  <b>G.N. Silva</b> Unifying the local convergence analysis of Newton's Method for strongly regular generalized equations			<b>Sessions Fr 2A: Augmented Lagrangians and Related Topics</b> <b>Chair: S.Scheimberg</b>	
17:00 - 17:30	<b>L.M. Graña</b> On the Choice of Special Pareto Points	<b>M. Sachine</b> Global Convergence of a Derivative-Free Inexact Restoration Filter Algorithm for Nonlinear Programming						<b>N. Fazio</b> Convergence Analysis of an Augmented Lagrangian Method for Multiobjective optimization problems	
17:30 - 18:00	<b>J. Rückmann</b> On Proper Efficiency in Multiobjective Semi-Infinite Optimization	<b>A. Siqueira</b> Numerical Experience with a Class of Trust-Region Algorithms for Unconstrained Smooth Optimization						<b>M.D. Sánchez</b> A Second Order Convergence Augmented Lagragian Method Using Non-Quadratic Penalty Functions	
18:00 - 18:30	<b>J. Souza</b> A New Approach for Convergence of the Proximal Point Method for Locally Lipschitz Functions in Multiobjective Optimization	<b>R. Andreani</b> Newton's method may fail to recognize proximity to optimal points in constrained optimization						<b>S. Scheimberg</b> A Modified Projection Algorithm for Constrained Equilibrium Problems	
18:00 - 18:30	<b>S.Souza</b> A Relaxed Projection Method for Solving Multiobjective Optimization Problems	<b>F. Sobral</b> An OTR Derivative-Free Augmented Lagrangian Algorithm for Constrained Problems							

Free-day  
Boat tour to Meeting Waters  
09:00 - 15:00