



# 1<sup>st</sup> Brazilian Workshop on Interior Point Methods

27-28 April, 2015 - Campinas, Brazil

## PROGRAM

Monday 27/04	
8:45	<b>Oppening</b>
9:00	<b>Plenary Conference I (Chair: Christiano Lyra)</b> <i>A Brief History of Computational Linear Programming</i> Prof. Geraldo Veiga
10:00	<b>Cofee-break</b>
<b>Contributed Section I (Chair: Maria Gonzalez-Lima)</b>	
10:30	<i>Optimal Choice of parameters in Interior Point Methods</i> Luis Rafael Santos
10:50	<i>A polynomial oriented IPM framework for infeasible iterates</i> Fernando Villas-Bôas
11:10	<i>The advantages of interior point methods for decomposition techniques</i> Pedro Munari
11:30	<i>Interior Point Methods Applied to Basis Pursuit</i> Paula Aparecida Kikuchi
11:50	<i>Interior-Point methods like as an alternative to estimate the context-free grammar parameters</i> Esther Sofia Mamián López
12:10	<b>Lunch</b>

<b>Contributed Section II (Chair: Frederico Campos)</b>	
14:00	<i>Improvement in the preconditioning of Linear Systems from IPM by the Modified Controlled Cholesky Factorization</i> Lino Silva
14:20	<i>A new proposal to modify the controlled Cholesky factorization to improve the interior point method.</i> Manolo Rodriguez Heredia
14:40	<i>Using Controlled Cholesky Factorization in the Normal Equations System Direct Solution from the Interior Point Methods</i> Luciana Yoshie Tsuchiya
15:00	<i>An adaptive preconditioner for primal block-angular problems by an interior point method</i> Silvana Bocanegra
15:20	<i>Variants of preconditioned conjugate gradient methods applied to linear systems arising from interior point methods</i> Marta Velazco
15:40	<i>A Hibrid Iterative approach for solving the linear systems from interior point methods</i> Marilene Silva
16:00	<b>Cofee-break</b>
16:30	<b>Plenary Conference II (Chair: Aurelio Oliveira)</b> <i>Large-scale optimization with BlockIP, a specialized IP solver for block-angular problems</i> Prof. Jordi Castro



# 1<sup>st</sup> Brazilian Workshop on Interior Point Methods

27-28 April, 2015 - Campinas, Brazil

Tuesday 28/04	
09:00	<b>Plenary Conference III (Chair: Daniela Cantane)</b> <i>Solving the normal equations system arising from interior point methods for linear programming by iterative methods</i> Aurelio Oliveira
10:00	<b>Coffee-break</b>
<b>Contributed Section III (Chair: Anibal Azevedo)</b>	
10:30	A new predictor-corrector method for optimal power flow Roy Wilhelm Probst
10:50	<i>Relaxation by Modified Logarithmic Barrier Applied to the Problem of Optimal Power Flow DC with Overload</i> Mayk Coelho
11:10	<i>Interior point methods applied to predispach with network topology manipulation covering bus and transmission lines simultaneously</i> Silvia Simões Carvalho
11:30	<i>Nonlinear medium-term hydro-thermal scheduling with transmission constraints</i> Leonardo Martins
11:50	<i>A Modified Barrier Method for An Optimal Power Flow Problem</i> Iara Silva
12:10	<b>Lunch</b>

<b>Contributed Section IV (Chair: Kelly Poldi)</b>	
14:00	<i>A Comparison Among Simple Algorithms for Linear Programming</i> Jair Silva
14:20	<i>A first order interior point algorithm for solving continuous Knapsack optimization problems.</i> Maria Gonzalez-Lima
14:40	<i>Continued iteration on predictor corrector interior point method</i> Lilian Berti
15:00	<i>A proposal to improve the conditioning of the Splitting preconditioner in the interior points method.</i> Cecilia Orellana Castro
15:20	<i>Improving the splitting preconditioner for linear systems from interior point methods</i> Luciana Casacio
15:40	<i>A New Approach for Finding a Base for the Splitting Preconditioner for Linear Systems from Interior Point Methods</i> Porfirio Suñagua
16:00	<b>Coffee-break</b>
16:30	<b>Plenary Conference IV (Chair: Pedro Munari)</b> <i>Inexact search directions in interior point methods for very large-scale optimization</i> Prof. Jacek Gondzio
17:30	<b>FAPESP Project Meeting</b>