

# EngOpt 2012

3<sup>rd</sup> International Conference on  
Engineering Optimization

Rio de Janeiro, Brazil, July 1-5, 2012

## Program

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José Herskovits

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PETROBRAS

## CONFERENCE FORMAT

	SUN	MON	TUE	WED	THU
08:30 – 10:10		Registration + Opening	Oral Session	Oral Session	Oral Session
10:10 – 10:30		Coffee	Coffee	Coffee	Coffee
10:30 – 12:10		Oral Session	Oral Session	Poster Session	Oral Session
12:10 – 15:00		Lunch	Lunch	Lunch	Lunch
15:00 – 16:40		Oral Session	Oral Session	Oral Session	Oral Session
16:40 – 17:00	Registration	Coffee	Coffee	Coffee	Coffee
17:00 – 18:40		Oral Session	Oral Session	Oral Session	Conference Closure
		Welcome Dinner 19:30 – 23:00		Conference Banquet 19:30 – 23:00	

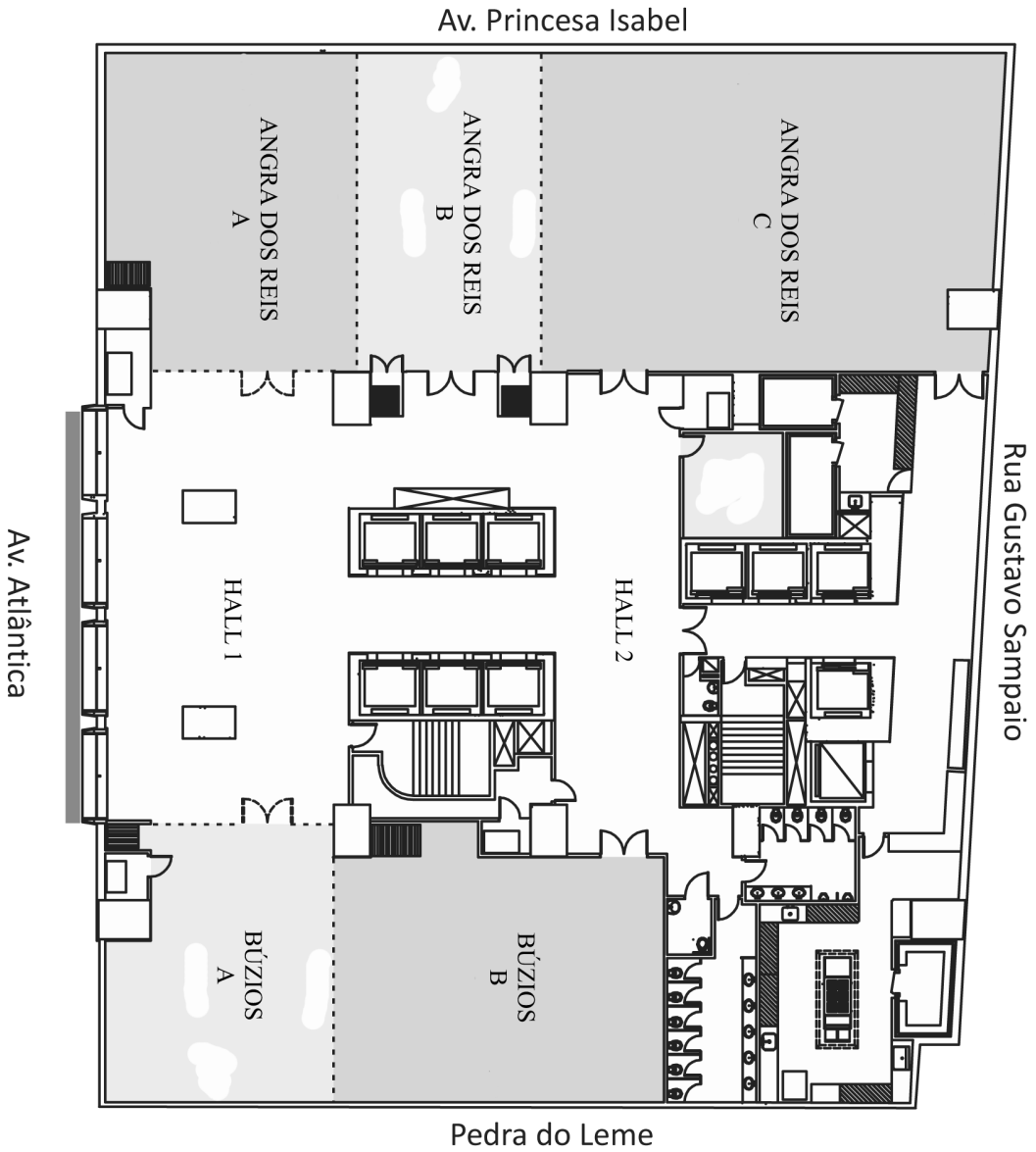
# SESSIONS

AERONAUTICS	Aeronautic Industry
AUTOMOTIVE	Automotive Industry
BIO-INSPIRED	Bio-Inspired and Heuristic Optimization
CIVIL-ENG	Civil Engineering
COMPOSITE	Composite Material Optimization – Smart Structures
ENERGY	Energy Generation and Transmission
GPU	Gpu and Parallel Processing
INDUSTRIAL APPLICATIONS	Industrial Applications
INVERSE	Inverse Problems and Parameters Estimation
MATOPT	Mathematical Optimization Techniques
MECHANICAL	Mechanical Engineering – Manufacturing – Machinery
OIL-GAS	Oil and Gas Applications
PLANNING	Planning and Scheduling
PROCESS	Process Optimization and Equipment
RELIABILITY	Reliability Based Design Optimization
SHAPE-SIZE	Shape and Size Optimization
SIGNAL	Pattern Recognition and Image – Signal Processing
SOLIDS	Solid Mechanics and Materials
STRUCTURAL	Structural Optimization
SURROGATE	Optimization & Surrogates
SYSTEMS	System Control and Dynamic Optimization
TOPOLOGY	Topology Optimization

# SESSIONS SCHEDULE

	MON	TUE	WED	THU
<b>08:30-10:10</b>				
Angra A		Oil-Gas	Aeronautics	Mechanical
Angra B		Shape-Size	Surrogate	Industrial Applications
Angra C		Composite	Topology	Bio-Inspired
<b>10:30-12:10</b>				
Angra A	Automotive	Oil-Gas		Mechanical
Angra B	Energy	Process	Poster Session	Reliability
Angra C	Composite	Structural		Topology / Structural
<b>15:00-16:40</b>				
Angra A	Gpu	Structural	Aeronautics	Industrial Applications
Angra B	Matopt	Inverse	Energy	Bio-Inspired
Angra C	Composite	Aerodynamics	Topology	Structural / Mechanics / Shape-Size
<b>17:00-18:40</b>				
Angra A	Matopt	Structural	Structural	
Angra B	Civil-Eng	Inverse	Solids	
Angra C	Systems	Planning	Topology	

# CONFERENCE CENTER FLOOR PLANS



ENGOPT 2012– Monday / Morning 02						
Schedule	AUTOMOTIVE		ENERGY		COMPOSITE	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	M. Gurvich	Chaired by	C. Sagastizabal	Chaired by	C. M. Mota Soares
10:30-10:50	Automotive Vehicle Launch Optimization based on Differential Evolution (DE) Approach for Increased Driveability <i>M. Bachinger; B. Knauder; M. Stolz</i>		The impact of inexactness in nonsmooth optimization: an empirical analysis with application to power management problems <i>C. Sagastizabal</i>		Adaptive Tabu Search in sensitivity of buckling loads to imperfections in conical shells <i>J. Blachut</i>	
10:50-11:10	Shape blending optimization framework for shell structures <i>P. de Nazelle; C. Fourcade; F. Gillot; Y. Tourbier</i>		Estimating the probabilistic contents of Gaussian rectangles faster in Joint Chance Constrained Programming for Hydro Reservoir management <i>W. Van Ackooij; R. Zorgati</i>		Material identification of viscoelastic core materials in sandwich structures <i>A. L. Araujo; C. M. M. Soares; C. A. M Soares; J. Herskovits</i>	
11:10-11:30	On the use of empirical likelihood-based spread regression in the case of flywheel assembly <i>A. Gadek-Moszczak; J. Pietraszek</i>		Range Optimization of Hybrid Vehicles <i>G. Granato</i>		Optimal positioning of piezoelectric patches in sandwich structures for maximum damping using the Direct MultiSearch method <i>A. L. Araujo; J. Aguilar; C. M. M. Soares; C. A. M Soares</i>	
11:30-11:50	Efficient optimisation of the structure of a passenger bus by iterative finite element models with increasing degrees of complexity <i>O. Ruiz; E. Ramirez; V. Jacobo; R. Schouwenaars</i>		An Integration of Optimum Electric Drive Control Systems with Downsized ICE to Build an Efficient Parallel Hybrid Vehicle Architecture <i>S. Ramdasi; A. Senthilkumar; S. Thipse; N. Marathe</i>		Optimal shape of fibers using FEM and BEM <i>P. Prochazka</i>	
11:50-12:10	Model Predictive Control for Vehicle Yaw Stability <i>M. Choi; S. Choi</i>		A portfolio optimization model for renewable energy trading <i>S. Bruno; A. Street</i>		Optimization of stacking sequence of composite layers in circular hybrid tubes under axial impact load <i>M. Mirzaei; H. Akbarshahi; M. Shakeri</i>	

ENGOPT 2012 – Monday / Afternoon 01						
Schedule	GPU		MATOPT		COMPOSITE	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	S. Cho	Chaired by	W. Freire	Chaired by	A. L. Araujo
15:00-15:20	Conjugate Gradients Implementation on a Tesla GPU: A Tool for Fast Hyperspectral Sensor Signal Optimization <i>E. Ponce; N. Imam; J. Barhen</i>		The Adjoint Method in Optimization <i>A. Toader</i>		Shape and Topology Optimization of Multi-layered Composite Materials <i>G. Delgado; G. Allaire</i>	
15:20-15:40	Parallel Computation of Adjoint Design Sensitivity for Nano-Continuum Multiscale Molecular Dynamics <i>H. Jang; J. Kim; Y. Park; S. Cho</i>		On the study of a Mehrotra-type predictor-corrector algorithm <i>A. Teixeira; R. Almeida</i>		Selfish Gene theory and Memetic Algorithms: A fusion of concepts for robust design of hybrid composites <i>C. António</i>	
15:40-16:00	Electrical Impedance Tomography Image Reconstruction through Simulated Annealing using GPU Parallelization and Outside-In Heuristic <i>R. Tavares; M. Tsuzuki; T. Martins</i>		A General Technique for Interior Point Methods for Nonsmooth Optimization <i>H. Cortes; J. Herskovits; A. Araujo; C. M. Mota Soares</i>		Effective design of rectangular sandwich plate with a corrugated core <i>L. Wittenbeck; K. Magnucki; P. Kuligowski</i>	
16:00-16:20	Development and Implementation of Parallel Versions of the Particle Swarm Algorithm on clusters using MPI <i>A. Moraes; P. Lage; A. Secchi</i>		Combining level and proximal bundle methods for convex optimization in Energy Problems <i>W. Oliveira</i>		Design Optimization of Repaired Composite Structures for Aerospace Applications: Concept and Implementation <i>M. Gurvich; V. Jagdale</i>	
16:20-16:40	LC-SVM : A Support Vector Machine with unequal misclassification costs <i>L. Capitani; R. Scarpel; E. Azevedo</i>		A Simplex Type Method for Bi-Objective Optimization <i>T. Peachey; M. Riley</i>		Properties of the cost functional in free material design <i>C. Barbarosie; S. Lopes</i>	



ENGOPT 2012 – Monday / Afternoon 02						
Schedule	MATOPT		CIVIL-ENG		SYSTEMS	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	J. Herskovits	Chaired by	B. Horowitz	Chaired by	C. Antonio
17:00-17:20	A General Technique for Interior Point Methods for Nonsmooth Optimization <i>M. Tanaka; J. Herskovits; A. Canelas</i>		Optimization of masonry units for single leaf walls using a Genetic Algorithm <i>L. Sousa; C. Castro; H. Sousa; C. António</i>		Towards optimal control of dynamic frictional contact problems involving large elasto-plastic deformations <i>S. Werner; G. Leugering; M. Stingl</i>	
17:20-17:40	Solving nonlinear complementarity problems with the FAIPA, the Feasible Arc Interior Point Algorithm <i>S. Mazorche; J. Herskovits</i>		A deterministic segment-linked optimization model for road network maintenance management <i>A. Ferreira; R. Souza</i>		Engineering Optimization of Multiple Sensors Integration Techniques in Multi-Target Tracking and Discrimination Scenarios <i>N. Iman; J. Barhen; C. Glover</i>	
17:40-18:00	Interior Epigraph Method for Nonsmooth and Nonconvex Optimization via Generalized Augmented Lagrangian Duality <i>W. Freire; R. Burachik; Y. Kaya</i>		Harmony Search Algorithm applied to the Optimization of Reinforced Concrete Columns <i>G. Fleith de Medeiros; M. Kripka</i>		Dynamic Optimization Using Wavelets Bases <i>L. Santos; A. Secchi; E. Biscaia Jr.</i>	
18:00-18:20	Optimization of structural systems with an interior point algorithm for semidefinite programming <i>M. Aroztegui; J. Roche; J. Herskovits</i>		Influence Of Silica Fume On The Properties Of Self-Compacting Concretes <i>S. Alsanusi; H. Esmoue; W. Jouma</i>		Combined Topology and Shape Optimization of Controlled Structures <i>K. Vandyshev; M. Langelaar; F. van Keulen</i>	
18:20-18:40	Numerical Solution Of Moving Boundary Problems Involving Parabolic Equations with a Nonlinear Complementarity Algorithm <i>G. Chapiro; S. Mazorche; J. Herskovits</i>		Production scheduling in proportionate machines with setup times and sequence dependent job deadlines <i>J. Daza-Escorcia; M. Ferrer-Vásquez</i>		Optimization Framework for Controlling the Synthesis Process of Silicon Nanoparticles <i>M. Gröschel</i>	

ENGOPT 2012 – Tuesday / Morning 01						
Schedule	OIL-GAS		SHAPE-SIZE		COMPOSITE	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	S. Bastos	Chaired by	J. Roche	Chaired by	J. Blachut
08:30-08:50	A Mixed-Integer Nonlinear Formulation for Optimal Operation of Oil Fields with Facility, Routing, and Pressure Constraints <i>M. Aguiar; T. Silva; E. Camponogara</i>		Optimization of the magnet system for the Lorentz Force Velocimetry of low conducting materials <i>A. Alferenok; U. Luedtke</i>		Optimal Design of Sandwich Functionally Graded Structures using Particle Swarm Optimization <i>I. Barbosa; M. Loja</i>	
08:50-09:10	Automatic History Matching Considering Surrogate Based Optimization and Karhunen-Loève Expansions <i>J. de Lira Jr; S. Bastos Afonso; R. Willmersdorf; B. Horowitz</i>		Minimization Of VIV Using An ALE-FE Formulation And Fractional Step Method In Fluid Structure Interaction Problems <i>U. Farias Filho; A. Antunes; S. Bastos; P. Lyra</i>		Multiscale finite element design and optimization of composite poroelastic and porous piezoelectric materials <i>A. Nasedkin; A. Nasedkina</i>	
09:10-09:30	Constraints Handling For Hybrid Algorithms In Waterflooding Optimization Problem <i>L. Oliveira; S. Afonso; B. Horowitz; A. Lemonge</i>		A Comprehensive Comparison of Shape Deformation Methods in Evolutionary Design Optimization <i>D. Sieger; S. Menzel; M. Botsch</i>		Optimization of active-passive piezoelectric networks parameters <i>H. Leal dos Santos; M. Trindade</i>	
09:30-09:50	Optimal Operation of a Three-Phase Separator to Minimize Severe Slugs Effects in Offshore Oil Platforms <i>S. Miyoshi; T. Monte; R. Bendia; M. Souza Jr.; A. Secchi</i>		Interior Point Methods for Shape Optimization in Electromagnetic Casting <i>A. Canelas; J. Herskovits; J. Roche</i>		Optimum design of composite prestressed concrete girder railway bridges <i>A. Al-Nuaimi; F. Mohammad</i>	
09:50-10:10	Production Optimization in Oil Producing Wells with Continuous Gas Lift <i>A. Teixeira; A. Secchi; E. Biscaia Jr.</i>		Shape optimization for a seepage problem using Small Amplitude Homogenization <i>S. Gutiérrez; J. Mura</i>		Design of interfaces to maximize material properties in polymer composites <i>R. Tannenbaum; I. Jasiuk; K. Jacob; D. Cipriri</i>	

ENGOPT 2012 – Tuesday / Morning 02						
Schedule	OIL-GAS		PROCESS		STRUCTURAL	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	E. Almeida Neto	Chaired by	A. Secchi	Chaired by	N. Strömberg
10:30-10:50	Decision support system for optimizing oilfield operations <i>A. Plucenio; E. Camponogara; C. Giuliani; R. Costa; R. Mejia; P. Nakashima</i>		Implementation of Pareto Multiobjective Particle Swarm Optimization Algorithm in EMSO <i>L. Gonçalves; F. Furlan; R. Soares; A. Secchi; R. Giordano; C. Costa</i>		Scalable finite and boundary element solution of contact shape optimization problems with Coulomb friction <i>V. Vondrak; P. Beremlijski; T. Kozubek; A. Markopoulos; M. Sadowska; Z. Dostal</i>	
10:50-11:10	A Comparative Study of Constraint-Handling Methodologies Applied to Genetic Algorithm for the Optimization of Submarine Pipeline Routes <i>R. de Lucena; D. Coutinho; B. de Lima; J. Baioco; C. Albrecht; B. Jacob</i>		Evaluation of Feasible and Infeasible Path Techniques for Process Optimization Coupled to an Equation-Oriented Process Simulator <i>R. Campos; L. Orenstein; A. Secchi; E. Biscia Jr.</i>		Multi-step Free-form Optimization of Shell Structures <i>Y. Liu; M. Shimoda</i>	
11:10-11:30	Refining Structures Optimization <i>M. Beltran Marin; V. Kafarov; C. MahechaBohorquez</i>		Pulp fibres refining optimization: a study for energy consumption minimization and conjugate paper properties optimization <i>Á. Váz; R. Simões; J. Silvy</i>		Structural shape optimization using Shor's r-algorithm <i>D. Wilke</i>	
11:30-11:50	Scheduling of Offshore Wells Activities in Petroleum Specific Resources <i>G. Nishioka; M. Joly; G. Le Roux</i>		An optimal approach for multicomponent distillation in a petrochemical plant in operation <i>M. Osorio; E. Munoz; A. Sanchez</i>		Assessment of physical surrogate performance in the sequential approximate optimization of space trusses <i>S. Bastos Afonso; B. Horowitz; M. da Silva</i>	
11:50-12:10	Application of PSO algorithm in Submarine Pipeline Routes Optimization <i>C. Albrecht; B. Monteiro; J. Baioco; M. Lima Jr; B. Lima; B. Jacob</i>		Heat Exchanger Network Optimization using integrated specialized software from ASPENTECH and GAMS Technology <i>A. Suarez</i>		Solving Constrained Structural Optimization Problems Using A Pso And An Adaptative Penalty Technique <i>A. Silva; A. Lemonge; B. Lima; B. Jacob; H. Barbosa</i>	

ENGOPT 2012 – Tuesday / Afternoon 01						
Schedule	STRUCTURAL		INVERSE		AERODYNAMICS	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	T. Sokol	Chaired by	H. Orlande	Chaired by	S. Kleinveld
15:00-15:20	Optimal design of annular and circular plates <i>J. Lellep; J. Polikarpus</i>		A study of regularization in image reconstruction Electrical Impedance tomography <i>J. L. L. Queiroz</i>			
15:20-15:40	Structural optimization under thermal constraints via a level-set method <i>G. Michailidis; G. Allaire; F. Jouve</i>		Identification and reconstruction of elastic body forces from boundary measurements <i>C. Alves; N. Martins</i>		Aerodynamical Global Shape Optimization at Two Supersonic Cruising Mach Numbers, by Morphing <i>A. Nastase</i>	
15:40-16:00	Stress energy approximation and solid-void interpolation schemes for structural shape optimization <i>G. Dzierzanowski</i>		Inverse determination of soil characteristics with a bench-scale centrifuge <i>B. Malengier; P. Kison; G. Di Emidio; H. Peiffer</i>		An Interior Point Gradient-based Optimizer for Aircraft Design <i>D. Quang; M. Ravachol; G. Rogé; J. Herskovits</i>	
16:00-16:20	Optimal shaping of Middle Surface of a Dished Head of Circular Cylindrical Pressure Vessel with the help of Bezier Curve <i>J. Lewinski; K. Magnucki</i>		Inverse parameter identification for a branching 1D arterial blood flow network <i>A. Bogaers; S. Kok; T. Franz; B. Reddy</i>		Robust and Reliability Based Design Optimization Framework for Wing Design <i>A. Suleman; C. Crawford; R. Paiva</i>	
16:20-16:40	Design Optimization Of Space Framed Structures Using Multiple Cardinality Constraints <i>A. Lemonge; H. Barbosa</i>		Parameters Reconstruction In Second Order Elliptic Equations <i>N. Roberty</i>		Unsteady Aerodynamic Design Optimisation of Multi-Element High Lift System using Advanced MOGA <i>H. Espinoza; D. Lee; R. Codina; J. Periaux</i>	

ENGOPT 2012 – Tuesday / Afternoon 02						
Schedule	STRUCTURAL		INVERSE		PLANNING	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	A. Marta	Chaired by	M. Colaço	Chaired by	A. Ferreira
17:00-17:20	Shape and topology optimization for the stress-based truss design under multiple loading <i>B. Descamps; R. Filomeno Coelho</i>		Simultaneous estimation of experimental and material parameters <i>G. Jansen van Rensburg; S. Kok; D. Wilke</i>		Optimizing Trips of Dynamic Positioned Shuttle Tankers Between FPSOs and Onshore Facilities <i>A. Plucenio; E. Camponogara; F. Pereira; P. Nakashima</i>	
17:20-17:40	Shape and thickness optimization of thin-walled pressure vessel end closures <i>J. Kruszelecki; R. Proszowski</i>		Heat Transfer Coefficient Estimation of an Internal Combustion Engine using Particle Filters <i>F. Hamilton; R. Carvalho; M. Colaço; A. Leiroz</i>		A General Variable Neighborhood Search heuristic for the Single Vehicle Routing Problem with Deliveries and Selective Pickups <i>I. Coelho; L. Ochi; M. Souza; M. Haddad</i>	
17:40-18:00	Optimization of welded structures with hot spot stress constraints evaluated using consistent finite element meshing <i>N. Takeda; P. Papalambros</i>		Estimation Of Parameters In An Inverse Heat Conduction Problem By Using A Markov Chain Monte Carlo Method <i>R. Padilha; H. Orlande; M. Paez</i>		Cutset inequalities for robust network design <i>C. Raack</i>	
18:00-18:20	Structural Optimization of Geometrically Nonlinear Trusses with Sensitivity Analysis of the Parameters in the Newton-Raphson Method <i>M. Silva; A. Lemonge; H. Barbosa</i>		Optimizing Sensor Allocation Using Reconciled Data In Systems With Scarce Measurements: Minlp And Milp Approaches <i>M. Narciso; E. do Valle; A. Kiperstok; R. Kalid</i>		Optimizing the Performance of Multistage Process Systems <i>G. Hadjinicola; A. Soteriou</i>	
18:20-18:40	On the structural optimization in presence of base isolating devices <i>F. Giambanco; F. Salvatore, L. Palizzolo, P. Tabbuso</i>		Bayesian inference approach to identify constitutive parameters of viscoelastic materials <i>H. de Souza; D. Castello; C. Matt</i>			

ENGOPT 2012 – Wednesday / Morning 01						
Schedule	INDUSTRIAL		SURROGATE		TOPOLOGY	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	F. Mohammad	Chaired by	D. Vucinic	Chaired by	E. Silva
08:30-08:50	A MILP model for simultaneous supply chain and facility design considering production scheduling <i>Y. Fumero; J. Montagna; G. Corsano</i>		Comparison between RBF and Kriging Surrogates in Design Optimization of High Dimensional Problems <i>K. Elsayed; D. Vucinic; C. Lacor; R. d'Ippolito</i>		Energy Change to the Insertion of Inclusions Associated to an Anisotropic and Heterogeneous Heat Diffusion Problem <i>S. Giusti; A. Novotny</i>	
08:50-09:10	Predictor-Corrector Primal-Dual Interior Point Method In Economic Dispatch Problem With Environmental Constraints <i>A. Stanzani; A. Balbo; L. Oliveira</i>		Adaptive Multilevel Radial Basis Function Metamodel for Engineering Optimization <i>T. Makin; H. Kim</i>		Inverse Conductivity Problem: A Bayesian-Topological Approach <i>J. Rocha de Faria; L. Rodrigues de Oliveira</i>	
09:10-09:30	Parameter estimation with opposite differential evolution applied to liquid chromatography <i>R. Hernández Torres; M. Irizar Mesa; O. Llanes Santiago; L. T. Câmara; A. da Silva Neto; L. Zumalacárregui de Cárdenas</i>		Sensitivity and robustness aspects in focused ultrasonic therapy simulation <i>D. Borsotto; T. Clees; L. Nikitin; L. Nikitina; D. Steffes-lai; C. Thole</i>		Topology Design of Kirchhoff Plates Based on Topological Derivative and a Level-Set Domain Representation Considering Different Volume Control Methods <i>D. Campeao; S. Giusti; A. Novotny</i>	
09:30-09:50	Performance optimization of a permanent-magnet excited synchronous machine for electrical automobiles <i>P. Si Barba; M. E. Mognaschi; R. Palka; P. Paplicki; S. Szkolny</i>		The asymptotic behaviour of the Gaussian correlation function in Kriging response surfaces <i>S. Kok</i>		A Topology Optimization Method to Extract Optimal Beam-Like, Plate-Like or Shell-Like Structures from a Solid Finite Element Mesh <i>J. P.Leiva</i>	
09:50-10:10	Towards automatic optimization of flow channel geometries in complex multi-level dies for film extrusion <i>C. Hopmann; S. Eilbracht</i>		Practical guidelines to avoid ill-conditioning of the correlation matrix in Kriging response surfaces <i>L. Haarhoff; S. Kok; D. Wilke</i>		Topological Derivative of the Kohn-Vogelius Criterion Associated to the Potential Inverse Problem <i>T. Machado; A. Novotny</i>	

<p>10:30-12:10</p>	<p><b>AERONAUTICS</b></p> <p>Navigation solution errors reduction through inertial sensors data fusion in a redundant bi-dimensional strap-down inertial navigator <i>T. Grigorie; R. Botez; D. Sandu</i></p> <p>Determination Of Lighting Comfort In An Aircraft Cabin <i>E. Vertamatti</i></p> <p><b>AUTOMOTIVE</b></p> <p>Toothed continuously variable transmission (CVT) for transport <i>K. Ivanov</i></p> <p>Bus suspension modeling and analysis by finite element software <i>C. Reyes; E. Ramirez; O. Ruiz; R. Schouwenaars; A. Ortiz</i></p> <p><b>BIO-INSPIRED</b></p> <p>Performance Analysis of Partial Use of Local Optimisation Operator on Genetic Algorithm for TSP <i>M. Djordjevic; A. Brodnik; M. Grgurovic</i></p> <p>Hard At Play: How Puzzles Can Improve Optimization Teaching And Research <i>M. Indrusiak; L. Indrusiak</i></p> <p>Artificial Bee Colony (ABC) for Engineering Problem Optimization <i>E. Gerhardt; H. Gomes</i></p>	<p><b>BIO-INSPIRED</b></p> <p>A Performance-based Generative design approach Using Multi-Objective Optimization in Architectural Design <i>M. Nicknam; M. Elnimeiri</i></p> <p><b>ENERGY</b></p> <p>Modeling and evaluation power distribution network considering the application of smart grids <i>J. Schreiber; P. Sausen; A. Sausen; M. Campos</i></p> <p>GIVMP: A Hybrid Heuristic Algorithm For Solving the unrelated Parallel Machine Scheduling Problem with Sequence Dependent Setup Times <i>M. Haddad; M. Souza; A. Martins</i></p> <p>An investigation about barrier parameters update strategy and Optimal Power Flow Solution <i>E. Ferreira; E. Baptista; E. Soler</i></p> <p>Optimized Cable Selection for Overhead Transmission Lines <i>L. Dambiski; L. Arruda; F. Neves</i></p> <p>Optimal Allocation of Capacitor Banks Considering the Impact of Distributed Generation <i>L. L. C. dos Santos; M. M. Santos; A. R. Abaide; T. F. Milke; L. Malaquias</i></p> <p>Enhancing the performance of the power monitoring channels in nuclear reactors <i>A. Mesquita; H. Rezende; A. Santos; D. Palma</i></p>	<p><b>INDUSTRIAL</b></p> <p>Inverse Computation Scheme of Turbomachinery Blade Shapes Applied to Axial Hydro-Turbine Runners <i>M. Santos; N. Manzanares; W. Oliveira; L. Santos</i></p> <p>Layout optimization of a wind farm using Genetic Algorithm <i>R. Gasperin; M. Indrusiak</i></p> <p><b>INVERSE</b></p> <p>Parallelized the Feldkamp algorithm for 3D reconstruction of tomographic images using GPUs and CUDA C <i>J. Dominguez; L. Oliveira; N. Alves</i></p> <p>A comparison of the Iterative Regularization Technique and the Kalman Filter for the Estimation of Boundary Heat Flux in Grinding <i>R. Carvalho; H. Orlande; M. Colaço</i></p> <p>Thermochemical properties estimation for biodiesel related mixtures <i>D. Borghi; C. Abreu; R. Guirardello</i></p> <p><b>MATOPT</b></p> <p>The study of the use of an artificial neural network to optimize the numerical solution of Laplace equation <i>J. Oliveira; E. Siqueira; M. Indrusiak</i></p>
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<p>10:30-12:10</p>	<p><b>MECHANICAL</b></p> <p>Evaluation by simulation of the microstructure and mechanical properties in ductile cast iron due to the addition of various alloying elements <i>T. Souza; M. Aguilar; R. Nogueira</i></p> <p>Damping Identification Of Mechanical Systems <i>B. Silva; A. Soares; J. Gonçalves</i></p> <p><b>PLANNING</b></p> <p>Transportation Cost x Economic Lot <i>M. Rezende; A. Cruz; J. Benzecry; M. Ribeiro</i></p> <p>Sequencing Activities in a Project Network considering Resource Complementarity <i>H. Silog; A. Tereso; J. Oliveira</i></p>	<p><b>PROCESS</b></p> <p>Modeling and Optimization of Auto-Thermal Ammonia Synthesis Reactor using the Gravitational Search Algorithm <i>F. Lobato; R. Borges; V. Steffen</i></p> <p>LDM - Digital Reader to Hydrometric Windlass <i>M. Moraes; L. Gramani</i></p> <p>Interior Points And Branch-And-Cut Hybrids Methods Applied In Transport Cost And Energy Generation Problems Of Sugarcane Biomass <i>C. De Lima; A. Balbo; H. Silva</i></p> <p>Energy Evaluation In The Process Of Evaporation-Crystallization For The Production Of Sugar Cane <i>G. Domínguez; A. Osorio; J. Lois</i></p> <p>Evaluation of Economic Impacts Achieved by a Control Strategy for Targeting Polymer Quality <i>P. Quirino; M. Embiruçu; K. Pontes</i></p> <p><b>SIGNAL</b></p> <p>Computer Vision Applied to Recognition Barcode <i>M. Almeida; A. Soares</i></p> <p>Optimization of signal-to-noise ratio in CdTe radiation detectors <i>A. Andreev; O. Sik; L. Grmela</i></p>	<p><b>SOLIDS</b></p> <p>2'D Non-Orthogonal Spline Wavelets and Schneider's level dependent Scheme for 3'D BEM <i>M. Hooshmand; K. Bargi; R. Dezvareh</i></p> <p>Damage detection using least-squares singular value decomposition methods and techniques to select the best experimental data <i>H. Duarte; L. Donadon; R. Ferreira</i></p> <p><b>STRUCTURAL</b></p> <p>Performance based optimal seismic design of steel moment frames using a hybrid genetic algorithm <i>S. Choi; P. Hyo</i></p> <p>Integrating automatic zone modeling with GA in a two-step approach for structural optimization of a composite wing. <i>V. Lemos; S. Castro; J. Hernandes</i></p> <p>Dynamic Response Optimization Of An Aeronautical Panel Subject To Beating Effects Using Equivalent Static Loads <i>H. Guerrini; J. Hernandes; E. Lucena</i></p> <p>Design Optimization Of Plate For Bucamaxilofacial Surgery Increase Mechanical Strength <i>L. Ricardo; P. Viktor</i></p> <p>A Semidefinite Programming Algorithm for Structural Optimization Involving Constraints on the Natural Frequencies <i>E. Bazán; M. Aroztegui; J. Roche; J. Herskovits</i></p>
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ENGOPT 2012 - Wednesday / Afternoon 01						
Schedule	AERONAUTICS		ENERGY		TOPOLOGY	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	Q. Dinh	Chaired by	S. Miloca	Chaired by	J. P. Leiva
15:00-15:20	Simultaneous Aerostructural Optimization of an Aircraft Wing Planform and Internal Stiffener Configuration Subject to Aeroelastic Constraint <i>V. Seow; K. Lu; H. Kim</i>		The Problem of Expansion of an Electrical Network with Reliability <i>S. Miloca; N. M. P. Volpi; C. Pinto</i>		Topology synthesis of electro-thermal compliant mechanisms using evolutionary optimization <i>E. Vequería; R. Ansola; J. Canales; J. Tàrrago</i>	
15:20-15:40	Multiphysics optimization of the piezoelectric flapping wing propulsion <i>M. Bidakhvidi; D. Vucinic; S. Vanlanduit</i>		A strategy of global convergence and cubic extrapolation to nonlinear programming applied to optimal power flow <i>R. Pinheiro; A. Balbo; E. Baptista; L. Nepomuceno</i>		Stress constrained topology optimization of a cantilevered piezoelectric energy harvester <i>F. Weom; M. Kaltenbacher; M. Stingl</i>	
15:40-16:00	Adaptive Waveform Design Based on Multi-Objective Optimization for OFDM-STAP Radar <i>S. Sen; C. Glover</i>		Planning for a distribution system considering load forecasting and inserting a new point of supply at medium voltage <i>D. Alzenira; M. Moisés; A. Sandro; M. Luciano; N. Luciane; F. Tafarel</i>		Topology optimization of large-scale Michell trusses using the adaptive ground structure approach <i>T. Sokol</i>	
16:00-16:20	An MDO Framework for Topology Optimization of Aircraft Structures <i>L. Felix; A. Gomes; A. Suleman</i>		Direct determination of maximum loadability power flow solutions through a trust region based optimization method <i>R. Salgado; G. Moraes</i>		Structural Optimization of Timoshenko Beam Networks <i>T. Kufner; C. Strohmeier; M. Stingl</i>	
16:20-16:40	Balanced Approach in Airport Noise Control: A multidisciplinary optimization problem <i>J. Slama; A. Gama</i>				Topology optimization of robust superhydrophobic surfaces <i>A. Cavalli; N. Andersen; E. Søgaard; P. Bøggild; R. Taboryski; F. Okkels</i>	

ENGOPT 2012 – Wednesday / Afternoon 02						
Schedule	STRUCTURAL		SOLID		TOPOLOGY	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	N. Vrankovic	Chaired by	P. Prochazka	Chaired by	C. R. de Lima
17:00-17:20	Elasto-Plastic Parameter Optimization Based On Gradient Methods <i>T. Ribeiro; L. Malcher</i>		A Finite Element approach using an Augmented Lagrangian Method to simulate impact problems under large 3D elastoplastic deformation <i>A. Bandeira; P. Pimenta</i>		Computational and Experimental Validation of Heat Sink Design Obtained by Using Topology Optimization Method <i>C. Lima; E. Lopes; H. Villa Nova; A. Koga; E. Silva</i>	
17:20-17:40	Isogeometric Shape Design Sensitivity Analysis of Elasticity in GCC Systems <i>M. Yoon; S. Bae; Y. Ha; S. Cho</i>		Effective numerical solution of ill-conditioned boundary-value problems in Mechanics of Solids <i>I. Brigadnov</i>		Power flow analysis based dynamic topology optimization of vibrational structures <i>X. Xue; G. Li; Y. Xiong; J. Gong</i>	
17:40-18:00	Isogeometric Shape Design Sensitivity Analysis of Mindlin Plates Using Multi-Resolution Approach <i>S. Lee; B. Koo; T. Lee; S. Cho</i>		Modelling of fatigue crack propagation using Piecewise Deterministic Markov Processes <i>A. Ben Abdessalem; M. Touzet; A. Gégout-Petit; M. Puiggali; R. Azais; C. Elegbede</i>		Band Gap Design of Piezocomposite Materials by Using Topology Optimization Method <i>E. Silva; S. Vatanabe</i>	
18:00-18:20	Optimization of Trussed Structure Considering Buckling Modes <i>J. Siqueira; M. Silva; R. Brasil</i>		On the use of neural network approximator with jackknife resampling approach for modeling a local porosity mean and variance in the case of the sintered stainless steel powder AISI 434L doped with Mn <i>J. Pietraszek; A. Gadek-Moszczak</i>		Force Flow Method in Topology Design of Structures <i>P. Rosko</i>	
18:20-18:40	Structural optimization in conjunction with model order reduction <i>M. Jokic; M. Stegic; N. Vrankovic</i>		Matrix Compression Strategies and their Properties for Wavelet BEM optimization <i>K. Bargi; M. Hooshmand</i>		A Sequential Piecewise Linear Programming Algorithm for Topology Optimization <i>F. Gomes Neto; T. Sennie</i>	

ENGOPT 2012 – Thursday / Morning 01						
Schedule	MECHANICAL		INDUSTRIAL		BIO-INSPIRED	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	P. Beremlijski	Chaired by	N. Martins	Chaired by	L. C. Souza
08:30-08:50	Extending the fatigue life of a fuel vent hole in an aircraft component using shape optimization <i>R. Das; R. Jones</i>		Solving uniform coverage problems in industrial production with Abel Inversion <i>D. Nowak; K. Küfer</i>		Investigating the efficiency of the surrogates based on neural networks in assisting multi-objective optimization of test-problems performed by a non-generational genetic algorithm <i>A. Barbosa; L. Guimarães</i>	
08:50-09:10	Optimization In Face-Hobbed Spiral Bevel Gears <i>V. Simon</i>		Improvement on the arrangement of thermocouples to estimate the wear line of a blast furnace hearth <i>L. Magnago; L. Catabriga</i>		Particle Swarm Optimization Method with New Velocity Update Scheme <i>B. Monteiro; M. Lima Jr; C. Albrecht; B. Jacob</i>	
09:10-09:30	Solving the non-linear Slab Stack Shuffling Problem using linear Binary Integer Programming <i>E. Fernandes; L. Freire; A. Passos; A. Street</i>		Method for Detecting High Impedance Faults with Parameter Identification by Voltage Superposition <i>M. Ketzer; C. Jacobina; M. Campos</i>		Heuristics for the Closest String Problem <i>A. Lyra</i>	
09:30-09:50	Exploring the use of adjoint methods for detailed sensitivity analysis on turbomachinery <i>A. Marta; S. Shankaran</i>		A MulticriteriaConfiability Methodology Whith The Adoption Of Feasible Solutions Of A Nonlinear Programming Model <i>L. Alves</i>		Automatic configuration for neural network applied to atmospheric temperature profile identification. <i>S. B. M. Sambatti; J. A. Anochi; E.F. P. Luz; E. H. Shiguemori; A. Carvalho; H. Campos Velho</i>	
09:50-10:10	Solution Of Cell Manufacturing Layout Problem Through A Discrete Hybrid Bfoa-Ga <i>C. MejiaMoncayo; D. Garzón Alvarado; J. Arroyo Osorio</i>		Sports Scheduling Using Modern Management Techniques <i>J. Daza-Escorcía; A. Álvarez-Mendoza; M. Ferrer-Vásquez</i>			

ENGOPT 2012 – Thursday / Morning 02						
Schedule	MECHANICAL		RELIABILITY		TOPOLOGY / STRUCTURAL	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	N. Roberty	Chaired by	A. Suleman	Chaired by	A. Novotny
10:30-10:50	Normal boundary intersection to solve a multi-objective stochastic optimization of rotor dynamics <i>R. Lopez; T. Ritto; R. Sampaio; J. Souza de Cursi</i>		Introduction of a RESTfulWebservice Framework for Complex Engineering Optimization <i>T. Makin; H. Kim; J. Padget</i>			
10:50-11:10	Multiobjective Optimization based on Multiphysics Models of High Frequency Electric Resistance Welding Process for pipes manufacture <i>D. Cherioni; L. Karhan; R. Hoya Sánchez; D. Lanzetti; M. Coggiola; R. Garrera</i>		RBDO with Non-Gaussian Variables by using a LHS- and SORM-based SLP approach and Optimal Polynomial Regression Models <i>N. Strömberg</i>		Design Of Structures Considering Nonlinear Elastic Deformation Using Topology Optimization Method <i>R. Lahuerta; E. Silva; E. Simões; E. Campello; P. Pimenta</i>	
11:10-11:30	Sensitivity analysis of the mechanical parameters of the sheet metals - a tool to predict the Forming Limit Band <i>G. Dragos; D. Banabic</i>		Reliability analysis of river bed simulation models <i>T. Clees; I. Nikitin; L. Nikitina; R. Kopmann</i>		Topology optimization in two-dimensional granular crystals <i>M. Silva Sohn; D. Tortorelli; I. Szelengowicz; C. Daraio</i>	
11:30-11:50	Kinetic optimal Watt design of knee prosthesis <i>J. Urrego; J. Ordoñez; C. Henao; F. Rodríguez</i>		The Simultaneous Computation Of The Equilibrium And The Reliability Of Rc Cross Sections Using Optimization Techniques <i>M. Silva; R. Brasil</i>		Optimization of elastic plastic circular plates made of homogeneous and composite materials <i>J. Lelley; B. Vlassov</i>	
11:50-12:10	Centrode Synthesis for a four-bar mechanism <i>L. Cabezas; F. Rodríguez</i>		Reliability Based Design Optimization for Nonlinear Static Truss System Considering Reduced-Order Modeling <i>R. Motta; S. Afonso</i>		Passive vibration controllers with zero dynamic reaction <i>A. Sohoul; Z. Dimitrovoová; H. Rodrigues</i>	

ENGOPT 2012 – Thursday / Afternoon 01						
Schedule	INDUSTRIAL		BIO-INSPIRED		STRUCTURAL / MECHANICS	
	Room	ANGRA A	Room	ANGRA B	Room	ANGRA C
	Chaired by	N. Imam	Chaired by	R. Das	Chaired by	J. Kruzelecki
15:00-15:20	Analysis Of Diverse Optimization Algorithms For Pump Scheduling In Water Supply Systems <i>B. Coelho; A. Tavares; A. Andrade-Campos</i>		Shape and size optimization of mechanical structures with stress and dynamic constraints by the Firefly algorithm <i>E. Rodrigues; H. Gomes</i>			
15:20-15:40	Optimal design of transportation networks by means of a continuum model <i>V. Cortinez; P. Dominguez</i>		Global Optimization based on Metamodeling using Radial Basis Functions with Adjustment of the Shape Parameter c <i>E. Silva; N. Manzanares-Filho; R. Camacho</i>		Robust Inverse Design Of Airfoils And Turbomachinery Cascades <i>N. Manzanares-Filho; A. M. G. Lima</i>	
15:40-16:00	Synchronisation and control of proliferation in cycling cell population models with age structure <i>O. Fercoq</i>		Multiobjective optimization of finite queueing networks <i>N. Brito; A. Duarte; E. Cruz</i>		Mesh optimisation for the inverse modelling of the Vickers test and its application to a tribologically modified surface layer <i>M. Ramirez; C. Figueroa; V. Jacobo; A. Ortiz; R. Schouwenaars</i>	
16:00-16:20	Genetic Algorithms And Vascular Graft Optimization <i>C. Castro; C. António; L. Sousa</i>		Solution of Flow Shop Scheduling Problems using the Differential Evolution Algorithm <i>F. Lobato; R. Gedraite; S. Neiro</i>			
16:20-16:40						

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