

EngOpt2014



4th International Conference
on Engineering Optimization

8 - 11 September 2014

Instituto Superior Técnico • Lisboa • Portugal

PROGRAMME

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Welcome Message

On behalf of EngOpt organizing committee we are pleased to welcome you to Lisbon for the 4th International Conference on Engineering Optimization held at Instituto Superior Técnico of the Universidade de Lisboa.

The main goal of EngOpt conference series is to periodically bring together engineers, applied mathematicians and computer scientists working on research, development and practical application of optimization methods applied to all engineering disciplines or developing basic techniques in this field. Following the very successful conference in Rio de Janeiro (EngOpt2012), the 4th International Conference on Engineering Optimization (EngOpt2014) is now held in Lisbon. The purpose of this Conference is to provide opportunities for scientists and engineers to meet and to discuss current research, new concepts and ideas and establish opportunities for future collaborations in all aspects of Engineering Optimization.

We invite you to be an active participant in this Conference and to contribute to any topic, or mini-symposium, of your scientific interest. By promoting a relaxed atmosphere for discussion and exchange of ideas we expect that new paths for research are stimulated and promoted and that new collaborations can be fostered. We hope that the 4th International Conference on Engineering Optimization will have an important impact on the research in all topics included in its programme.

We want to express our appreciation to all members of the committees involved in the preparation of this Conference, to all mini-symposia organizers who identified and promoted some of the most active topics of research in Engineering Optimization, to all the staff who are managing the different aspects of the Conference and to all the contributing authors and participants who will create the real Conference. We hope that all of you feel rewarded for your participation and contribution.

Sincerely Yours,

Hélder Rodrigues, IST (EngOpt2014 Chairman)

José Herskovits, COPPE/UFRJ (EngOpt2014 Co-Chairman)

Cristóvão Mota Soares, IST (EngOpt2014 Co-Chairman)



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Conference Organization

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- **Cristóvão Mota Soares**, IST (Co-Chairman)
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- **H. Jensen**, Valparaíso, Chile
- **F. Jouve**, Paris, France
- **N.-H. Kim**, Gainesville, USA
- **Y.Y. Kim**, Seoul, Korea
- **A. Klarbring**, Linköping, Sweden
- **J.P. Kuzhichalil**, Lisbon, Portugal
- **J. Lellep**, Tartu, Estonia
- **A.C.C. Lemonge**, Juiz de Fora, Brazil
- **A. Leski**, Warsaw, Poland
- **J. Logo**, Budapest, Hungary
- **R.A. Loyola**, Bilbao, Spain
- **E. Lund**, Aalborg, Denmark
- **N. Maïzi**, Paris, France
- **A.C. Marta**, Lisboa, Portugal
- **J.R.R.A. Martins**, Michigan, USA
- **N.F.M. Martins**, Lisboa, Portugal
- **K. Maute**, Colorado Boulder, USA
- **A. Nastase**, Aachen, Germany
- **S. Nishiwaki**, Kyoto, Japan
- **A. Novotny**, Petropolis, Brazil
- **M. Ohsaki**, Higashi-Hiroshima, Japan
- **N. Olhoff**, Aalborg, Denmark
- **H. Orlande**, Rio de Janeiro, Brazil
- **P. Papalambros**, Michigan, USA
- **G. Paulino**, Urbana, USA
- **N. Pedersen**, Lyngby, Denmark
- **P. Pedersen**, Lyngby, Denmark
- **O.M. Querin**, Leeds, UK
- **S. Rao**, Miami, USA
- **J. Roche**, Vandoeuvre Les Nancy, France
- **A. Secchi**, Rio de Janeiro, Brazil
- **E.C.N. Silva**, São Paulo, Brazil
- **E. Silva**, Itajubá, Brazil
- **S. Silva**, Recife, Brazil
- **T. Sokol**, Warsaw, Poland
- **M. Stolpe**, Roskilde, Denmark
- **A. Suleman**, Lisboa, Portugal
- **J. Taler**, Cracow, Poland
- **M. Tanaka**, Santarém, Brazil
- **A.-M. Toader**, Lisboa, Portugal
- **D. Tortorelli**, Urbana, USA
- **A. Tovar**, Indianapolis, USA
- **F. Van Keulen**, Delft, Netherlands
- **D. Vucinic**, Brussels, Belgium
- **G.H. Yoon**, Seoul, Korea

Organizing Institutions

IST - Instituto Superior Técnico, Universidade de Lisboa

IDMEC/IST - Institute of Mechanical Engineering



Endorsed by

APMTAC – Portuguese Association of Theoretical, Applied and Computational Mechanics

EUROPT – The Continuos Optimization Working Group of EURO

IFORS– International Federation of Operational Research Societies

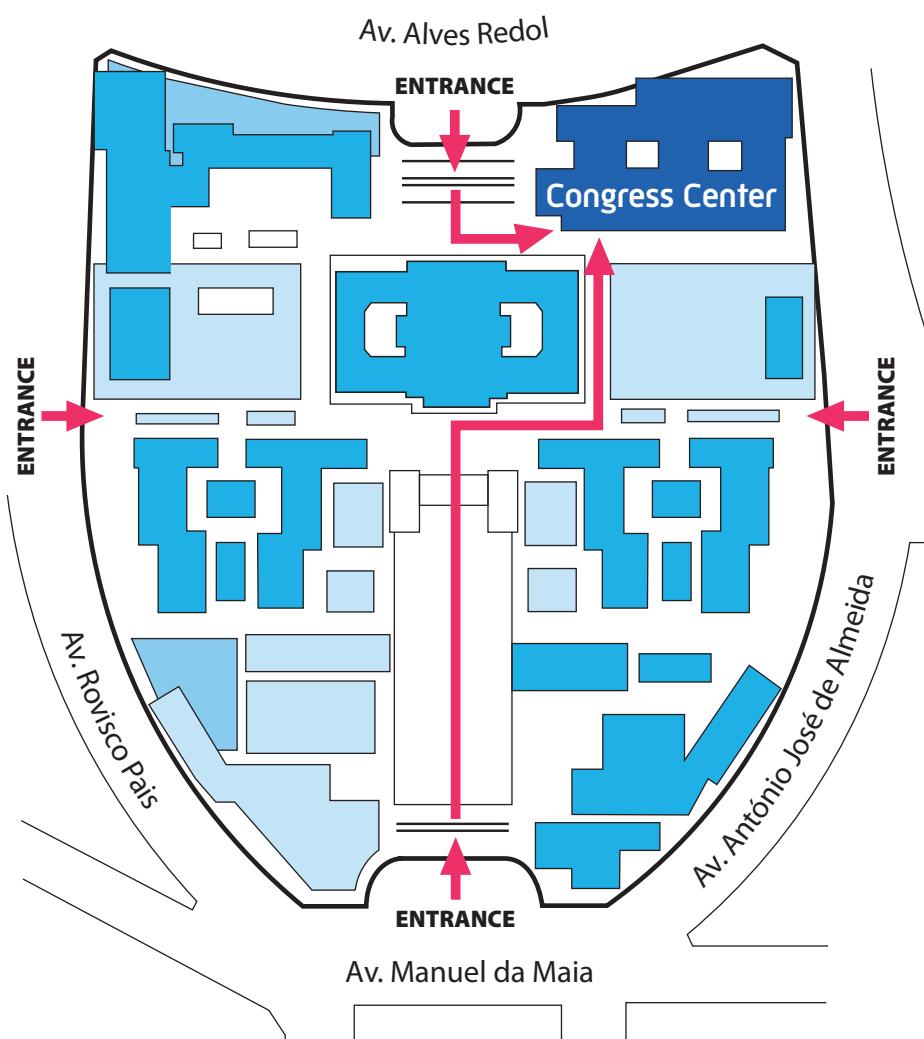
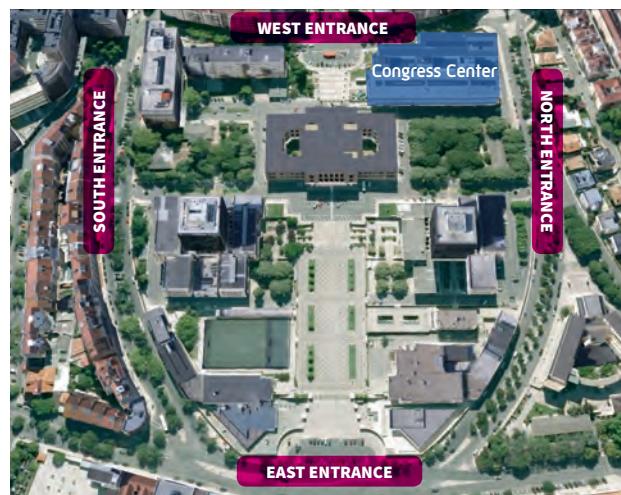
ISSMO – International Society for Structural and Multidisciplinary Optimization

MOS – Mathematical Optimization Society

Conference Venue

The 4th International Conference on Engineering Optimization (EngOpt 2014) takes place in the Instituto Superior Técnico Congress Center, situated at the Civil Engineering Building (Pavilhão de Civil) with the address:

Congress Center (*Civil Engineering Building*)
Instituto Superior Técnico
Av. Rovisco Pais 1
1049-001 Lisboa



Map of Lisbon



 linha
Azul
Blue line

 linha
Amarela
Yellow line

 linha
Verde
Green line

 linha
Vermelha
Red line



General Tourist Information

Getting to Lisbon by air

Direct flights from most of European cities, North or South America and Africa land at the Portela Airport, terminal 1. A taxi ride from the airport to IST is about 4-5 km that takes 10-15 min, depending on traffic, and should cost around 8€. To downtown the taxi ride is about 7 km and should cost around 10€. 1.60€ is charged for the transportation of luggage or animals. A sure option is the “Taxi Voucher” a prepaid taxi service starting at 16.40€, on sale at the “Information Desk” in the arrival terminal. Lisbon Airport has its own Metro Station, Aeroporto - red line (see map of Lisbon with subway lines). Other options are the AeroBus and the Aeroshuttle (3.5€).

Getting to Lisbon by car

Drivers coming from the north use highway A1 while those coming from East and South use highway A2, entering in Lisbon through the 25 de Abril bridge or use A12 and enter by the Northeast of Lisbon through the Vasco da Gama bridge. The speed limits in Portugal are 120 km/h on highways, 90 km/h on roads and 50 km/h in urban areas, unless marked otherwise.

Getting to Lisbon by train

The St. Apolónia station is the terminal for trains arriving from the North of Portugal. Another option is to use the train station Oriente. From the South of Portugal an option is to use the train station Oriente. Connections to the metro lines exist at both stations (St. Apolónia - blue line, Oriente - red line).

Moving around

Taxi:

Lisbon is served by an extensive network of public transportation that can take you anywhere in the city and to its surroundings. Taxis (black and green or beige) are cheap when comparing to most of the European countries. They can be called by phone, picked-up on

taxi plazas or stopped on the street. The fare on the taxi meter should start at 3.25€ (daytime pick-up) or 3.90€ (nighttime). Outside the city limits, city fares are charged per kilometer. 1.60€ is charged for the transportation of luggage or animals. Before taking a taxi, inquire about the fare.

Metro:

The Lisbon Metro is a very comfortable and easy way to reach most of the city, from 6:30 to 1:00. The Metro lines reach most of the city being the Metro stations close to IST:

- Alameda (red and green line)
- Saldanha (red and yellow line)

Bus

The bus routes cover all Lisbon and extend to its outskirts. The tickets can be pre-paid, at the counters of Carris, the surface transportation operator for Lisbon, or bought aboard the bus, electric cars or funiculars.

For IST hop off on one of the following bus stops:

Av. Manuel Maia
Av. Rovisco Pais
Arco do cego

Metro and Bus Fares:

Reusable card – 0,50 €
METRO/CARRIS – 1,40 €
CARRIS
 Bus – 1,80 € (on board fare)
 Tram – 2,85 € (on board fare)

Trains

Suburban trains to Estoril and Cascais depart from the Cais do Sodré train station, to the south of the river cities from Roma-Areeiro (Entrecampos) while to Sintra the trains depart from Rossio train station or Oriente (Entrecampos). The ride to Cascais or to Sintra should take about 35-45 min, each way. The train ride to south of the river is a highlight as the train will cross the 25 de Abril bridge with magnificent views of Lisbon.

For IST the nearby train stations are:

Roma-Areeiro
Entrecampos

National emergency number: 112

Other general information

- Time zone: GMT +1 summer time
- Electricity: 220V, 50 Hz with standard European power sockets
- Currency: Euro (€)
- Banks: working hours are 8:30 – 15:00 (Monday-Friday)
- Pharmacies: 9:00 – 19:00
- Shops: 9:00 – 19:00
- Shopping Malls: 10:00 – 23:00
- Temperature: Average high 28°C, Average low 18°C



Main Museums in Lisbon:

- Centro de Arte Moderna
(Modern Art Museum)
- Museu do Oriente
(Oriente Museum)
- Museu Calouste Gulbenkian
(Calouste Gulbenkian Museum)
- Museu dos Coches
(Coach Museum)
- Museu Nacional de Arte Antiga
(National Museum for Old Art)
- Colecção Berardo
(The Berardo Collection)
- Museu do Azulejo
(Tile Museum)

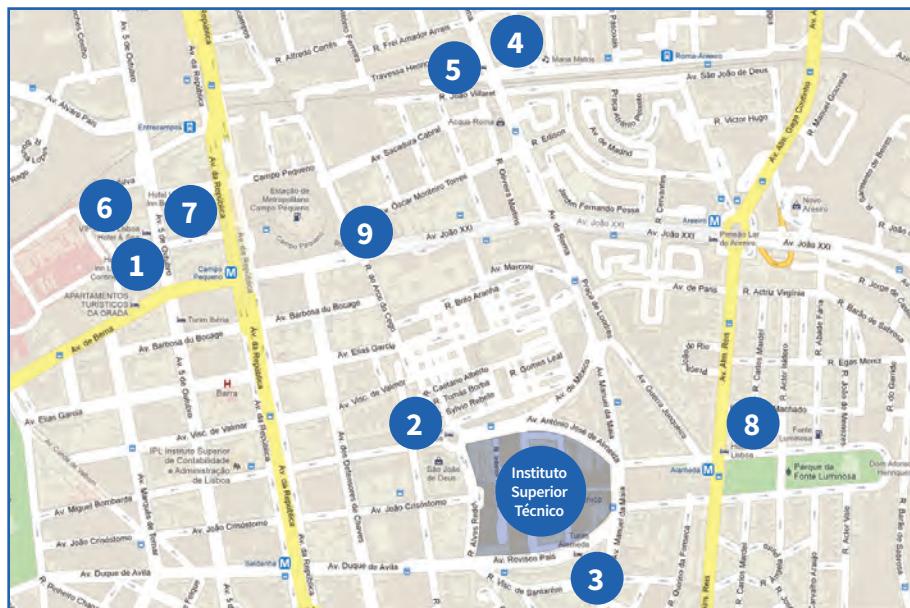
Main Monuments in Lisbon:

- Aqueduto das Águas Livres
(Free Waters' Aqueduct)
- Basílica da Estrela
(Estrela Churro)
- Castelo de São Jorge
(Saint George's Castle)
- Sé Patriarcal
(Patriarchal Cathedral)
- Mosteiro dos Jerónimos
(Jerónimos Monástico)
- Padrão dos Descobrimentos
(Monument to the Discoveries)
- Torre de Belém
(Belém Tower)

Accommodation

Hotels close to IST:

- 1 > Hotel VIP Grand
- 2 > Hotel Holiday Inn Lisboa
- 3 > Hotel Turim Alameda
- 4 > Hotel Lutécia
- 5 > Hotel Roma
- 6 > Hotel Zurique
- 7 > Hotel Berna
- 8 > Hotel AS Lisboa
- 9 > Hotel Alif Campo Pequeno



General Information

Registration Open Hours

- Sunday, September 7, 15:00-18:00
- Monday, September 8, 08:30-18:00
- Tuesday, September 9, 08:30-18:00
- Wednesday, September 10, 08:30-18:00
- Thursday, September 11, 08:30-14:00

EngOpt 2014 Secretariat

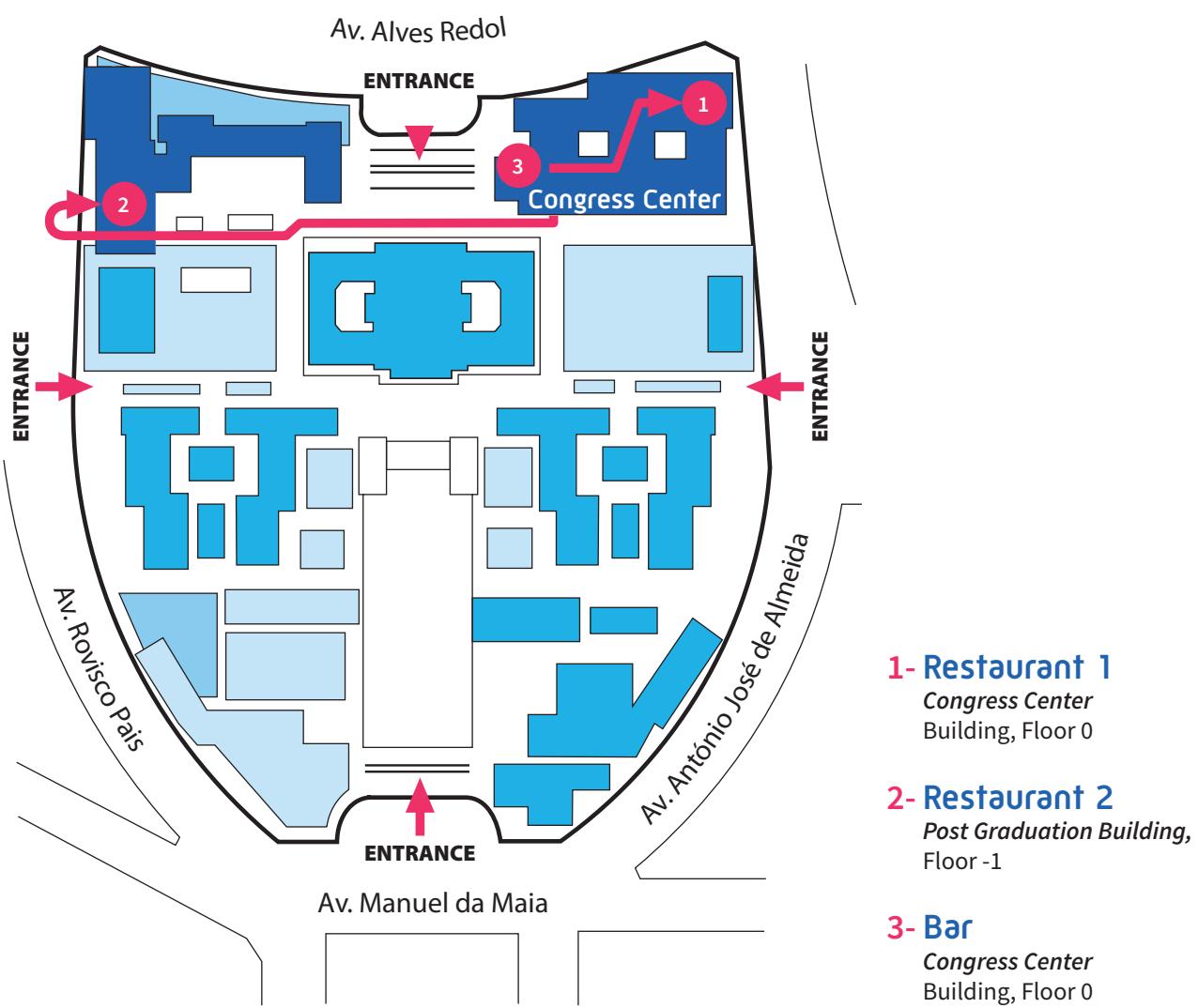
CPM - Centre for Mechanical Design
 Mechanical Engineering Departament
 Instituto Superior Técnico
 Av. Rovisco Pais, 1049-001 Lisboa, Portugal
 Phone: +351 218417280
 Fax: +351 218417915
 Email: engopt2014@dem.ist.utl.pt
 Web: www.dem.ist.utl.pt/engopt2014/

Coffee-Breaks

The coffee-breaks will take place in the hall 2 and hall 1S of the conference center (see map of the conference center) and will be open to all participants. Kindly wear your Conference Badge.

Lunches

The Lunch tickets included in the package received during the registration will be honored at the two restaurants and a bar marked in the map below. Both restaurants offer a few choices for lunch in self-service. The bar allows the participants the choose their own lunch at will, within the price range of the lunch tickets, otherwise the exceeded amount must be paid. Note that the lunch tickets have different colors for the different days and are valid only for the day printed in the front.



1- Restaurant 1

*Congress Center
Building, Floor 0*

2- Restaurant 2

*Post Graduation Building,
Floor -1*

3- Bar

*Congress Center
Building, Floor 0*

Social Program

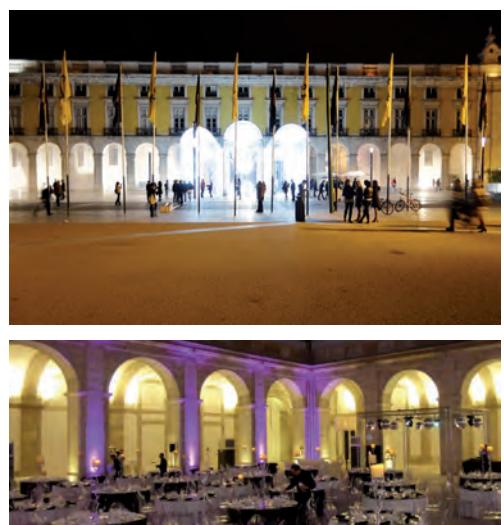
Welcome Reception – Monday, September 8th, 18h-20h

The welcome reception will take place at the hall 2 and hall 1S of the Congress Center (see the Conference Center Floor Plans)



Congress Banquet – Wednesday, September 10th, 20h

The congress banquet will take place in the down town nearby the Tagus River, at Patio da Galé, Terreiro do Paço (also called Praça do Comércio). To get there, you can take the subway and pick the stations Terreiro do Paço or Baixa Chiado. Please do not forget to **bring your Banquet Vouchers**.

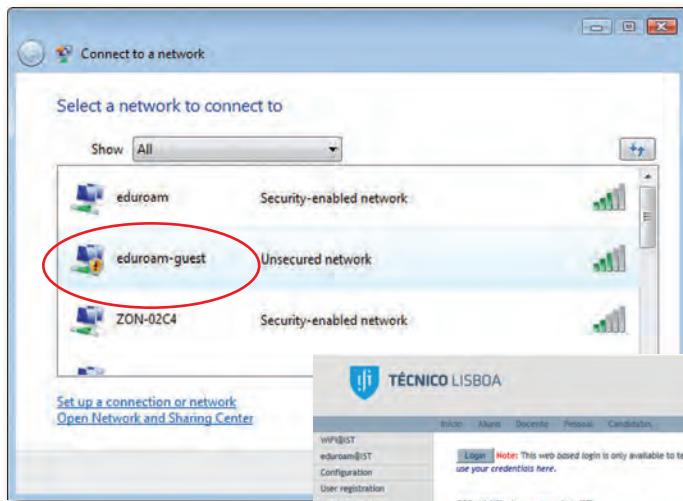


Conference Information

Wireless Internet Access

Step 1:

Select the eduroam-guest network



Step 2:

Open your web access program (Microsoft Explorer or other) and select **WEB BASED LOGIN**.

The composite image includes three parts: 1) A screenshot of the 'Auth' section of the 'TÉCNICO LISBOA' website, which displays a note about 'WEB BASED LOGIN'. 2) A 'Windows Security' dialog box prompting for a user name ('engopt') and password ('3pESPx'), with a 'Remember my credentials' checkbox. 3) A blue callout bubble containing the text 'engopt 3pESPx' pointing to the password field in the dialog box.

Step 3:

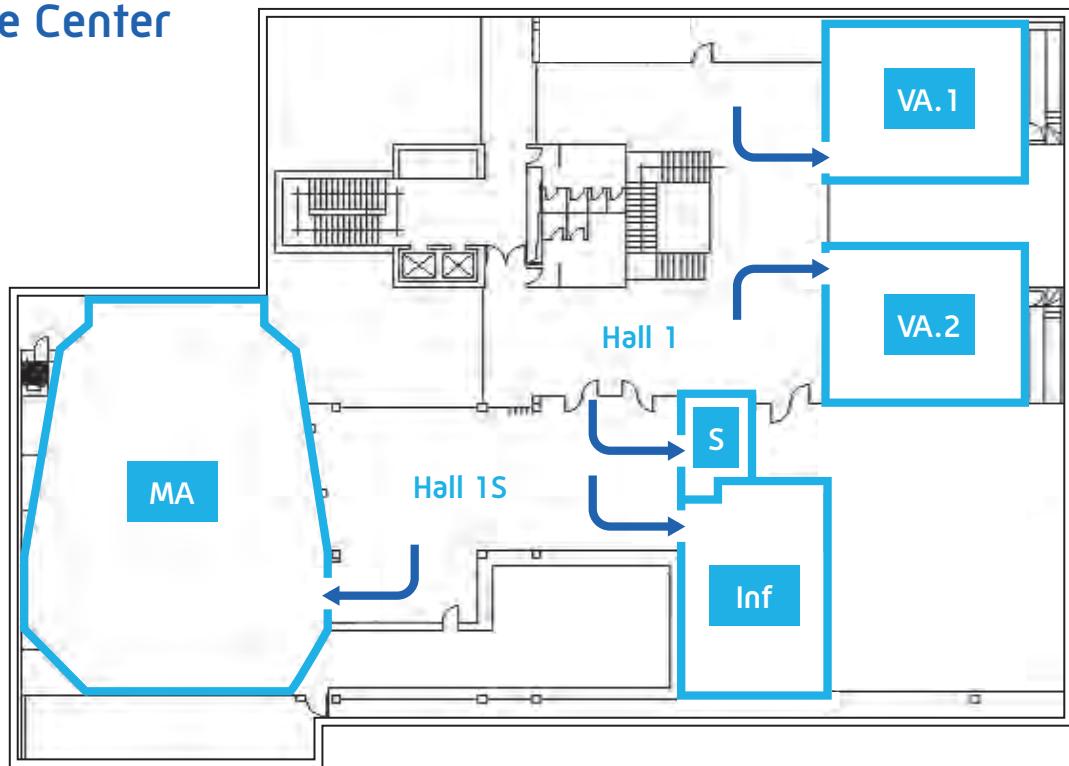
Enter user: **engopt**
Password: **3pESPx**

Instructions for Presenters

- Each Oral presentation will take 20 minutes including discussion.
- The files required for the presentation (PowerPoint or PDF) must be uploaded and tested in the Computer placed in the room before the respective presentation session. Conference computers are Windows 7 machines with Office 2010 and Acrobat PDF reader.
- Posters will be displayed on vertical boards with maximum dimensions of 900mm (width) x 1200mm (height), which corresponds approximately to a standard A0-portrait.
- Poster session is scheduled for Wednesday, September 10, in the hall 1 of the Conference Center (see map of the Conference Center). The posters should be posted in the morning before the coffee break and must be removed at the end of the poster session.

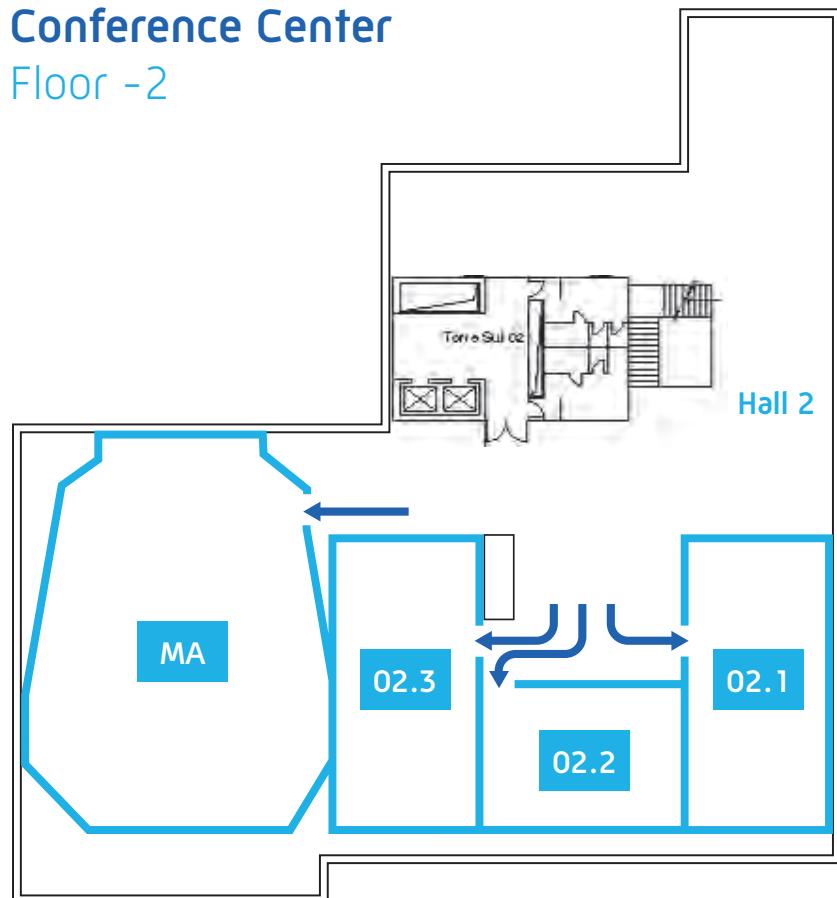
Conference Center Floor Plans

Conference Center Floor -1



MA - Main Auditorium
S - Secretariat
Inf - Computer Room
VA.1 - Lecture Room
VA.2 - Lecture Room
02.1 - Lecture Room

Conference Center Floor -2



Programme at a glance

	SUNDAY September 7	MONDAY September 8	TUESDAY September 9	WEDNESDAY September 10	THURSDAY September 11	
08:40		Registration	Parallel Sessions	Parallel Sessions	Parallel Sessions	08:40
10:20		Opening Session Main Auditorium 10:05 - 10:20				10:20
10:35		Coffee Break	Coffee Break	Coffee Break	Coffee Break	10:35
12:35		Parallel Sessions	Parallel Sessions	Parallel Sessions	Parallel Sessions	12:35
14:00		Lunch	Lunch	Lunch	Lunch	14:00
16:00	Registration 15:00 - 18:00	Parallel Sessions	Parallel Sessions	Parallel Sessions	Parallel Sessions	16:00
16:15		Coffee Break	Coffee Break	Coffee Break	Coffee Break	16:15
17:55		Parallel Sessions	Parallel Sessions	Parallel Sessions	Parallel Sessions	17:55
20:00		Welcome Reception			Closing Session, MA	20:00
				Congress Banquet		

Parallel Sessions

TOPIC	MONDAY September 8			TUESDAY September 9			WEDNESDAY September 10			THURSDAY September 11		
	SESSION	SESSION	SESSION	SESSION	SESSION	SESSION	SESSION	SESSION	SESSION	SESSION	SESSION	SESSION
N Numerical Optimization Techniques	N-01 Room VA.1	N-02 Room VA.1	-	N-03 Room VA.1	N-04 Room VA.1	-	N-05 Room VA.1	N-06 Room VA.1	-	N-07 Room VA.1	N-08 Room VA.1	N-09 Room VA.1
D Design Optimization and Inverse Problems	D-01 Room MA	D-02 Room MA	D-03 Room MA	D-05 Room MA	D-06 Room MA	D-07 Room MA	D-08 Room MA	D-10 Room MA	D-11 Room MA	D-12 Room MA	D-13 Room MA	D-14 Room MA
E Efficient Analysis and Renanalysis Techniques	E-01 Room VA.2											
S Sensitivity Analysis				S-01 Room VA.1								
I Industrial Applications	I-01 Room 02.1	I-02 Room 02.1	I-03 Room 02.1	I-04 Room 02.1	I-05 Room 02.1	I-06 Room 02.1	I-07 Room 02.1	I-08 Room 02.1	I-09 Room 02.1	I-10 Room 02.1	I-11 Room 02.1	I-12 Room 02.1
MS1 Topology Optimization for Structural Static and Dynamic Failures					MS1-01 Room VA.2	MS1-02 Room VA.2						
MS2 Optimization in Oil and Gas Industries							MS2-01 Room VA.1			MS2-02 Room VA.2		
MS3 New Advances in Derivative-Free Optimization Methods for Engineering Optimization								MS3-01 Room VA.2	MS3-02 Room VA.2			
MS4 Optimization Methods in Biomechanics and Biomedical Engineering								MS4-01 Room VA.1		MS4-02 Room VA.1	MS4-03 Room VA.1	
MS5 Optimization of Laminated Composite Structures							MS5-01 Room VA.2	MS5-02 Room VA.2	MS5-03 Room VA.2			
MS6 Inverse Problems in Engineering				MS6-01 Room VA.2	MS6-02 Room VA.2	MS6-03 Room VA.1						

Parallel Sessions

Monday

September 8th, 2014

10:35 - 12:35

Session: D-01		Design Optimization and Inverse Problems			Room: MA
Chair:	George Rozvany				
Hours	ID	Speaker	Title		
10:35-10:55	5736	Lazarov, Boyan S	Topology Optimized Designs of Steady State Conduction Heat Transfer Problems with Convection Boundary Conditions Lazarov, Boyan S; Alexandersen, Joe; Sigmund, Ole		
10:55-11:15	5754	Wallin, Mathias	Topology Optimization Based on Inverse Motion Form Finding Wallin, Mathias; Ristimaa, Matti		
11:15-11:35	5770	Gupta, Deepak K.	Topology Optimization for Improving the Performance of Solar Cells Gupta, Deepak K; Langelaar, Matthijs; Barink, Marco; van Keulen, Fred		
11:35-11:55	5861	Evgrafov, Anton	A Locally Cubically Convergent Algorithm for Topology Optimization of Stokes Flows Evgrafov, Anton		
11:55-12:15	5894	Nakamura, Hiroyuki	Study on The Topology Optimization of Electronic Parts Mounted on Micro Satellite Nakamura, Hiroyuki		
12:15-12:35	5906	Silva, Olavo M.	A Topology Optimization Procedure for the Vibrational Power Flow Response in 3D FE Models Silva, Olavo M.; Neves, Miguel M.; Lenzi, Arcano		

Session: I-01		Industrial Applications			Room: 02.1
Chair:	Cristovao Mota Soares				
Hours	ID	Speaker	Title		
10:35-10:55	5494	Beauthier, Charlotte	Hypersonic Cryogenic Tank Design Using Mixed-Variable Surrogate-Based Optimization Beauthier, Charlotte; Hendrick, Patrick; Mahajan, Ashvin; Sainvitu, Caroline; Sharifzadeh, Shayan; Verstraete, Dries		
10:55-11:15	5508	Afzal, Arshad	A Multi-Objective Optimization Procedure for Micromixer Design Using MOGA Afzal, Arshad; Kim, Kwang-Yong		
11:15-11:35	5619	Andry, Philippe	Better Flexible Hoses Design Thanks to Optimization Andry, Philippe		
11:35-11:55	5684	Marano, Giuseppe C.	Optimization of a Dissipative Connection in Wall-Frame Systems Greco, Rita; Marano, Giuseppe C.		
11:55-12:15	5885	Aute, Vikrant	An Adaptive Multiscale Approximation Assisted Multiobjective Optimization Applied to Compact Heat Exchangers Saleh, Khaled H; Bacellar, Daniel; Aute, Vikrant; Radermacher, Reinhard		
12:15-12:35	6038	Popov, Grigorii M.	Seven-Stage Axial Compressor Optimization Matveev, Valeriy N.; Egorov, Igor N.; Baturin, Oleg V.; Popov, Grigorii M.		



Session: N-01		Numerical Optimization Techniques			Room: VA.1
Chair:	Janos Pinter				
Hours	ID	Speaker	Title		
10:35-10:55	5582	<i>Yang, Songlin</i>	The Comprehensive Optimization Analysis of Mechanical properties of the Monohull Ship <i>Yang, Songlin; Yu, Qiang ; Chen, Yi</i>		
10:55-11:15	5974	<i>Ramos, Nuno NR</i>	Railway Seat Structure Optimization for Crashworthiness Improvement using Meta-modeling <i>Ramos, Nuno NR; Ambrósio, Jorge</i>		
11:15-11:35	6017	<i>Lee, Jae-Woo</i>	Tailless UAV Design Using Variable Fidelity Method with Global Design Search and Radial Basis Function Networks <i>Lee, Jae-Woo; Tyan, Maxim; Nguyen, Nhu Van; Kim, Sangho; Nah, SeungHyeog</i>		
11:35-11:55	6109	<i>Herskovits, José</i>	Structural Optimization Including Constraints on the Natural Frequencies with a Nonlinear Semidefinite Programming Approach <i>Herskovits, José; Roche, Jean Rodolphe; Bazan, Elmer</i>		
11:55-12:15	5533	<i>Bandeira, Alex Alves</i>	Augmented Lagrangian Algorithm Applied to Simulate Impact Problems <i>Bandeira, Alex Alves; Pimenta, Paulo M.</i>		
12:15-12:35					

Session: E-01		Efficient Analysis and Reanalysis Techniques			Room: VA.2
Chair:	José Herskovits				
Hours	ID	Speaker	Title		
10:35-10:55	5525	<i>Yue, Yao</i>	Accelerating Cyclic Steady State Optimization of Linear Simulated Moving Bed Chromatography Models by Krylov-Type Model Order Reduction Methods <i>Yue, Yao ; Li, Suzhou; Feng, Lihong; Seidel-Morgenstern, Andreas; Benner, Peter</i>		
10:55-11:15	5643	<i>Camaño, Alexandra L</i>	Development of a New Technique for Straightening of Welding Induced Distortion in Ship Structures <i>Camaño, Alexandra L</i>		
11:15-11:35	5831	<i>Hidalgo-Silva, Hugo</i>	Improving Linear Inversion Algorithms for Geosounding Inversion <i>Hidalgo-Silva, Hugo; Gomez-Trevino, Enrique</i>		
11:35-11:55	5899	<i>Beremlijski, Petr</i>	On Solution of 3D Contact Shape Optimization Problems with Coulomb Friction Based on Domain Decomposition <i>Beremlijski, Petr; Markopoulos, Alexandros</i>		
11:55-12:15	5946	<i>Shetty, Sandeep</i>	Efficient Reliability-Based Optimization using a Combined Metamodel and FE-Based Strategy <i>Shetty, Sandeep</i>		
12:15-12:35	5386	<i>Kuzmina, Lyudmila K</i>	A.M.Lyapunov Reduction Principle in Problems of Parametric Stability/Optimality for Complex Systems <i>Kuzmina, Lyudmila K</i>		

Parallel Sessions

Monday

September 8th, 2014

14:00 - 16:00

Session: D-02		Design Optimization and Inverse Problems			Room: MA
Chair:	Ole Sigmund				
Hours	ID	Speaker	Title		
14:00-14:20	5439	<i>Kuci, Erin</i>	Shape Optimization of Interior Permanent Magnet Motor for Torque Ripple Reduction <i>Kuci, Erin; Geuzaine, Christophe; Dular, Patrick; Duysinx, Pierre</i>		
14:20-14:40	5512	<i>Gangl, Peter</i>	Design Optimization of Electric Machines Using Shape Optimization and Sensitivity-Based Topology Optimization <i>Gangl, Peter; Langer, Ulrich</i>		
14:40-15:00	5842	<i>Vondrejc, Jaroslav</i>	Shape Optimization for Homogenized Phononic Materials and Band Gap Structures <i>Rohan, Eduard; Vondrejc, Jaroslav; Heczko, Jan</i>		
15:00-15:20	5892	<i>Otomori, Masaki</i>	Topology Optimization for the Design of Light-Trapping Structures Considering a Uniform Cross-Sectional Constraint <i>Otomori, Masaki; Yamada, Takayuki; Izui, Kazuhiro; Nishiwaki, Shinji; Kogiso, Nozomu</i>		
15:20-15:40	5988	<i>Leon, Jersson X</i>	Tuning Parameters Using Bio-Inspired Multiobjective Optimization Algorithm for Topology Optimization Based on Bacterial Chemotaxis <i>Leon, Jersson X; Guzmán, María A</i>		
15:40-16:00	5990	<i>van der Veen, Gijs J.</i>	Integrated Optimization of Controller and Topology for Mechatronic Systems <i>van der Veen, Gijs J.; Langelaar, Matthijs; van Keulen, Fred</i>		

Session: I-02		Industrial Applications			Room: 02.1
Chair:	João Dias				
Hours	ID	Speaker	Title		
14:00-14:20	5562	<i>Olivera, Ana C</i>	Robust Assignment of Fleet Size and Travel Routes for Transportation to a Single-Destiny Using Optimization via Simulation <i>Gabriel, Baquela Enrique; Olivera, Ana C</i>		
14:20-14:40	5142	<i>Harald, Harald</i>	Experimental and Analytical Flow Optimization of Hydraulic Accumulators <i>Harald, Harald; Zimmermann, Uwe; Hübner, Dirk</i>		
14:40-15:00	5575	<i>Kawtummachai, Ruengsak</i>	A Hybrid Harmony Search Algorithm for a Green Vehicle Routing Problem <i>Kawtummachai, Ruengsak; Shohdohji, Tsutomu</i>		
15:00-15:20	5625	<i>Callies, Rainer</i>	Optimal Race Course Design for Air Races <i>Callies, Rainer</i>		
15:20-15:40	5772	<i>Averbakh, Igor</i>	Transportation Network Construction Planning Problems <i>Averbakh, Igor; Pereira, Jorge</i>		
15:40-16:00	5947	<i>Oliveira Júnior, Antonio</i>	The Ant Colony Optimization Algorithm for Offshore Air Transport in Northeast Of Brazil <i>Mota, Liliane; Oliveira Júnior, Antonio; Souza, Domingos Fabiano; Soletti, João Inácio; Souza, Thiago; Carvalho, Sandra H. V.; Jesus, Edilson; Rocha, Kamila</i>		



Session: N-02		Numerical Optimization Techniques			Room: VA.1
Chair:	Pauli Pedersen				
Hours	ID	Speaker	Title		
14:00-14:20	5740	<i>Gambarelli, Paola</i>	A Surrogate-Assisted Evolutionary Algorithm for Dynamic Structural Identification <i>Gambarelli, Paola; Vincenzi, Loris</i>		
14:20-14:40	5815	<i>Mansour, Rami</i>	A Single-loop Method for Reliability-Based Design Optimization <i>Mansour, Rami; Olsson, Mårten</i>		
14:40-15:00	5850	<i>Arakawa, Masao</i>	Schemes in Setting Position and Radius of RBF in Convolute RBF for Surrogate Optimization <i>Arakawa, Masao; Kitayama, Satoshi</i>		
15:00-15:20	5910	<i>Zambolini-Vicente, Bruno G. G. L.</i>	Robust Optimization of Shunt Circuits for the Passive Control of Composite Structures <i>Zambolini-Vicente, Bruno G. G. L.; Silva, Victor A. C.; de Lima, Antônio M. G.</i>		
15:20-15:40	5914	<i>Gubarev, Fedor V</i>	Towards Large-Scale Surrogate-Based Optimization <i>Gubarev, Fedor V; Pospelov, Alexis I.</i>		
15:40-16:00	5953	<i>Pant, Rajkumar S</i>	An Improved Methodology for Airfoil Shape Optimization using Surrogate Based Design Optimization <i>Rajaram, Dushhyanth; Pant, Rajkumar</i>		

Session: MS6-01 MS06 - Inverse Problems in Engineering				Room: VA.2
Chair:	Schalk Kok, Daniel N. Wilke			
Hours	ID	Speaker	Title	
14:00-14:20	5620	<i>Martins, Nuno F. M.</i>	Direct and Optimization Methods for the Localization of Immersed Obstacles in Porous Media <i>Martins, Nuno F. M.</i>	
14:20-14:40	5732	<i>Wilke, Daniel Nicolas</i>	Comparison of Two Inverse Strategies to Characterize Soil Profiles <i>Wilke, Daniel Nicolas; Kok, Schalk; Heymann, Gerhard</i>	
14:40-15:00	5739	<i>Kok, Schalk</i>	Estimating the Stress-Strain Curve of Steel Wire <i>Kok, Schalk; Wilke, Daniel</i>	
15:00-15:20	5779	<i>Mierzwicka, Magdalena</i>	Determination of Non-Uniformity of Unidirectional Fibrous Porous Media as Inverse Problem <i>Kolodziej, Jan A; Mierzwicka, Magdalena; Fritzkowski, Paweł</i>	
15:20-15:40	5789	<i>Jansen van Rensburg, Gerhardus J</i>	Simultaneous Boundary Value and Material Parameter Estimation using Imperfect Compression Data. <i>Jansen van Rensburg, Gerhardus J; Kok, Schalk; Wilke, Daniel N</i>	
15:40-16:00	5922	<i>Asaadi, Erfan</i>	Using Inverse Mapping to Directly Solve Inverse Problems <i>Asaadi, Erfan; Kok, Schalk; Heyns, Stephan</i>	

Parallel Sessions

Monday

September 8th, 2014

16:15 - 17:55

Session: D-03		Design Optimization and Inverse Problems			Room: MA
Chair:	Sergio Turteltaub				
Hours	ID	Speaker	Title		
16:15-16:35	5691	<i>Vicente, Diogo A.</i>	Parameterization Formulations for Aerofoil Shape Optimization <i>Vicente, Diogo A.; Gamboa, Pedro V.; Silvestre, Miguel A.R.</i>		
16:35-16:55	5695	<i>Patil, Dhaval A</i>	Surrogate Based Analysis and Shape Optimization of an Aerostat Envelope <i>Pant, Rajkumar S; Paul, Smritinandan; Patil, Dhaval A</i>		
16:55-17:15	5843	<i>Papadimitriou, Dimitrios I.</i>	Robust Reliability-Based Aerodynamic Shape Optimization <i>Papadimitriou, Dimitrios I.; Papadimitriou, Costas</i>		
17:15-17:35	6383	<i>Patho, Robert</i>	Optimal Shape Design in Frictional Contact Problems with a Solution-Dependent Friction Coefficient <i>Patho, Robert</i>		
17:35-17:55	6760	<i>Zapletal, Jan</i>	BEM Based Shape Optimization Using Subdivision Surfaces <i>Zapletal, Jan; Merta, Michal</i>		

Session: I-03		Industrial Applications			Room: 02.1
Chair:	Paulo Lyra				
Hours	ID	Speaker	Title		
16:15-16:35	5464	<i>Holopainen, Sami K</i>	A Model for Scheduling using Supplier/Vendor Selection <i>Holopainen, Sami K</i>		
16:35-16:55	5656	<i>Mavromatis, Georgios</i>	Multi-Objective Optimization to Simultaneously Address Energy Hub Sizing, Layout and Scheduling using a Linear Formulation <i>Mavromatis, Georgios; Evans, Ralph; Orehounig, Kristina; Dorer, Viktor; Carmeliet, Jan</i>		
16:55-17:15	6363	<i>Ali, Abdalla</i>	Dynamic Job Shop Scheduling with Alternatives Routes based on Genetic Algorithm <i>Ali, Abdalla; Hackney, Phil; Birkett, Martin; Bell, David</i>		
17:15-17:35	5757	<i>Donoso-Bravo, Andrés</i>	Optimization In Biogas Processes Production. The Importance of Global Sensitivity Analysis, Optimization Procedure and Uncertainty Analysis <i>Donoso-Bravo, Andrés; Carrera-Chapela, Fabio; Ruiz-Filippi, Gonzalo</i>		
17:35-17:55					



Session: S-01		Sensitivity Analysis			Room: VA.1
Chair:	Alejandro Diaz				
Hours	ID	Speaker	Title		
16:15-16:35	5876	<i>Sigmund, Ole</i>	A Comparison of SIMP, Topological Derivatives and Other Topology Optimization Approaches <i>Sigmund, Ole</i>		
16:35-16:55	5630	<i>Lavasan, Arash</i>	Sensitivity Analysis of the Model Response In Mechanized Tunnelling Simulation - A Case Study Assessment <i>Zhao, Chenyang ; Lavasan, Arash A; Schanz, Tom</i>		
16:55-17:15	5642	<i>Plazaola, Carlos R</i>	Sensitivity Analysis of the Stability of Buried Anisotropic Material Circular Cylindrical Shells Including Soil Interaction <i>Plazaola, Carlos R; Medina, Ana E</i>		
17:15-17:35	5858	<i>Lise, Noël</i>	Shape Optimization of Bimaterial (Micro)Structures Using XFEM and a Level Set Description <i>Lise, Noël ; Pierre, Duysinx</i>		
17:35-17:55	5396	<i>Sammani D</i>	A Revised Vertex Enumeration Algorithm Via Dual Fourier-Motzkin Elimination Method <i>Abdullahi, Sammani D</i>		

Session: MS6-02		MS06 - Inverse Problems in Engineering			Room: VA.2
Chair:	Schalk Kok, Daniel N. Wilke				
Hours	ID	Speaker	Title		
16:15-16:35	5651	<i>Colaco, Marcelo J</i>	Bayesian Estimate of Mass Fraction of Burned Fuel in Internal Combustion Engines Using Pressure Measurements <i>Estumano, Diego C; Hamilton, Fabiana C; Colaco, Marcelo J; Leiroz, Albino JK; Carvalho, Rogerio N; Dulikravich, George S; Orlande, Helcio RB</i>		
16:35-16:55	5657	<i>Silva, Tiago A. N.</i>	Probability Distribution Estimation Based on Experimental Variability using Differential Evolution <i>Silva, Tiago A. N.; Loja, Maria A. R. ; Carvalho, Alda ; Maia, Nuno M. M. ; Barbosa, Joaquim I.</i>		
16:55-17:15	5753	<i>Kolodziej, Jan</i>	Meshless Methods for the Inverse Problem Related to the Determination of Non-Newtonian Fluid Properties from the Volume Flow Experiment <i>Mierzwiczak, Magdalena ; Grabski, Jakub ; Kolodziej, Jan K</i>		
17:15-17:35	5797	<i>Francisco, Paulo R. V.</i>	Multicriteria Optimization Techniques Applied To Vehicle Accident Reconstruction <i>Francisco, Paulo R. V; Dias, João M. P; Sousa, Luis A. G.</i>		
17:35-17:55	5887	<i>Takeda, Norio</i>	Measurement-Simulation Hybrid Modeling for Estimating Unmeasured Responses <i>Takeda, Norio</i>		

Parallel Sessions

Tuesday

September 9th, 2014

08:40 - 10:20

Session: D-04		Design Optimization and Inverse Problems			Room: MA
Chair:	Andres Tovar				
Hours	ID	Speaker	Title		
08:40-09:00	5553	<i>Igor, Mainenti-Lopes</i>	Application of Generalized Extremal Optimization (GEO) Technique to Design a Orbit Transfer Solar Sail Control System <i>Igor, Mainenti-Lopes; Luiz, Souza; Fabiano, Sousa</i>		
09:00-09:20	5676	<i>Benndorf, Joerg</i>	Performance Optimization of Complex Continuous Mining System Using Stochastic Simulation <i>Soleymani Shishvan, Masoud; Benndorf, Joerg</i>		
09:20-09:40	5810	<i>Choi, Han-Lim</i>	Information-Maximizing Adaptive Design of Experiments for Wind Tunnel Testing <i>Choi, Han-Lim; Ahn, Jaemyung; Cho, Doo-Hyun</i>		
09:40-10:00	5935	<i>Ramalhinho, Helena</i>	A Polynomial Algorithm for a Special Case of the One-Machine Scheduling Problem with Time-Lags <i>Ramalhinho, Helena</i>		
10:00-10:20	7047	<i>Turteltaub, S.</i>	Isogeometric Shape Optimization for Time-Dependent Problems <i>Turteltaub, S.; Wang, Z.P.</i>		

Session: I-04		Industrial Applications			Room: 02.1
Chair:	Takanori Ide				
Hours	ID	Speaker	Title		
08:40-09:00	5817	<i>Morvaj, Boran</i>	Optimal Selection and Operation of Distributed Energy Resources for an Urban District <i>Morvaj, Boran; Evins, Ralph; Carmeliet, Jan</i>		
09:00-09:20	5408	<i>Othman, Mahmoud Mohamed</i>	A Firefly Based Optimization Technique for Optimal Planning of Voltage Controlled Distributed Generators <i>Othman, Mahmoud Mohamed; El-Kattam, Walid Seif; Hegazy, Yasser Gamal; Abdelaziz, Almoataz Youssef</i>		
09:20-09:40	6762	<i>Alhasan, Ishaq</i>	An Integrated MILP Model for Optimal Operation of a Network of Gas Oil Separation Plants: An Industrial Case Study <i>Alhasan, Ishaq; Liu, Songsong; Papageorgiou, Lazaros G.</i>		
09:40-10:00	5958	<i>Hrebicek, Jiri</i>	Optimization of Corporate Performance Using Data Envelopment Analysis with Maple <i>Hrebicek, Jiri; Chvatatova, Zuzana; Trenz, Oldrich; Soukopova, Jana</i>		
10:00-10:20	5423	<i>Veriuzhska, Tetiana Y</i>	Optimization of the Overload-Protection Degree <i>Perelmuter, Anatoly V; Veriuzhska, Tetiana Y</i>		



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4th International Conference on Engineering Optimization

Session: MS6-03 MS06 - Inverse Problems in Engineering				Room: VA.1
Chair:	Schalk Kok, Daniel N. Wilke			
Hours	ID	Speaker	Title	
08:40-09:00	5900	<i>Fernandez de Bustos, Igor</i>	On Introducing Restrictions for Mechanism Design <i>Fernandez de Bustos, Igor; García Marina, Vanessa; Ansola, Ruben; Abasolo, Mikel</i>	
09:00-09:20	5950	<i>Borges, João E.</i>	A New Aerodynamic Inverse Method for the Design of Ducts <i>Borges, João E.</i>	
09:20-09:40	5962	<i>Pinto, Luis</i>	Fall Detection Modeling Based on Inverse Problems <i>Pinto, Luis; Figueiredo, Isabel; Kumar, Sunil N.; Leal, Carlos</i>	
09:40-10:00				
10:00-10:20				

Session: MS1-01 MS01 - Topology Optimization For Structural Static and Dynamic Failures				Room: VA.2
Chair:	Gil Ho Yoon, Matteo Bruggi			
Hours	ID	Speaker	Title	
08:40-09:00	5563	<i>Kim, Ki Hyun</i>	Research on the Layout of Both Rigid and Porous Materials In the Acoustic Topology Optimization for Noise Barrier <i>Kim, Ki Hyun; Yoon, Gil Ho</i>	
09:00-09:20	5564	<i>Arimitsu, Yutaka</i>	Optimum Structures of Micropolar Materials Depending on Elastic Constants <i>Arimitsu, Yutaka; Wu, Zhiqiang; Sogabe, Yuji; Kimura, Takuto</i>	
09:20-09:40	5674	<i>Salazar de Troya, Miguel A</i>	Adaptive Mesh Refinement in Stress-Based Topology Optimization <i>Salazar de Troya, Miguel A.; Tortorelli, Daniel A.</i>	
09:40-10:00	5688	<i>Bruggi, Matteo</i>	A Robust Approach to the Optimization of Structures Made of Unilateral Material <i>Bruggi, Matteo; Duysinx, Pierre</i>	
10:00-10:20	5908	<i>Kovács, Flórián</i>	Optimal Packages: Binding Regular Polyhedra <i>Kovács, Flórián</i>	

Parallel Sessions

Tuesday

September 9th, 2014

10:35 - 12:35

Session: D-05		Design Optimization and Inverse Problems			Room: MA
Chair:	Janos Logo				
Hours	ID	Speaker	Title		
10:35-10:55	5529	Gutierrez, Sergio	An overview of Results for Inverse Problems using Small Amplitude Homogenization Gutierrez, Sergio		
10:55-11:15	5612	Inglese, dr Gabriele	Recovering the Functional Form of Nonlinear Heat Transfer by Means of Thermal Imaging Inglese, dr Gabriele		
11:15-11:35	5791	Sobota, Tomasz	Numerical Inverse Method for Determining Heat Flux Distribution on the Combustion Chamber Water Wall Sobota, Tomasz		
11:35-11:55	5839	Libotte, Gustavo B	A Graphic Java Interface for the Calculation of Double Azeotropes by the Inversion of Functions from the Plane to the Plane Libotte, Gustavo B; Platt, Gustavo M; Guedes, Aline D L		
11:55-12:15	5879	Guedes, Aline de Lima	Inversion of Function from the Plane to the Plane to solve Nonlinear Algebraic Systems: Calculating of Double Azeotrope using the Modified Raoult's Law Guedes, Aline de Lima; Platt, Gustavo Mendes; Neto, Francisco Duarte Moura		
12:15-12:35	5940	Ferreira, Patricia A. D.	Inverse Problems Applied to the Optimization of Numerical Model Validation of Railway Track Dynamic Behavior Ferreira, Patricia A. D.; Maciel, Rui		

Session: I-05		Industrial Applications			Room: 02.1
Chair:	Zuzana Dimitrovova				
Hours	ID	Speaker	Title		
10:35-10:55	5600	Wurm, M.Sc. Andreas	Automotive Shift Quality Optimization based on Piecewise Monotone Interpolation of Parameter Characteristics Wurm, M.Sc. Andreas; Bestle, Prof. Dr.-Ing. habil. Dieter; Kahlbau, Dr.-Ing. Sebastian		
10:55-11:15	5650	Dias, Pedro H. C.	Automotive Powertrain Optimization by Genetic Algorithm Analysing Transmission Ratios Colherinhas, Gino B.; Dias, Pedro H. C.; Rodrigues, Anna Paula S. P.; Diniz, Alberto C. G. C.		
11:15-11:35	5697	Bapst, Roman	Model-Linearisation Strategies for MPC of the Air-Path of a Diesel Engine Bapst, Roman; Jakob, Marcel; Asprion, Jonas; Guzzella, Lino		
11:35-11:55	5698	Carvalheira, Pedro de F. V.	Optimization of the Fuel Consumption of M3165 Four-Stroke Internal Combustion Engine Carvalheira, Pedro de F. V.; Nunes, Jorge Miguel F.		
11:55-12:15	5816	Centeno González, Felipe O	Optimizing Parameters of a Downdraft Biomass Gasifier Centeno González, Felipe O; Arruda, Karina; Lora, Electo; Gonçalvez, José L		
12:15-12:35	5907	Cada, Roman	Designing and Optimizing Nuclear Fuel Loadings Cada, Roman		



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4th International Conference on Engineering Optimization

Session: N-03		Numerical Optimization Techniques			Room: VA.1
Chair:	Pierre Duysinx				
Hours	ID	Speaker	Title		
10:35-10:55	5506	<i>Secchi, Argimiro R</i>	A Comparative Study Between Wavelet-Adaptive Multiple Shooting and Single Shooting Implemented in a Matlab-EMSO Environment <i>Santos, Lizandro S; Secchi, Argimiro R; Biscaia Jr., Evaristo C</i>		
10:55-11:15	5678	<i>Roche, Jean R.</i>	Interior Point Method for Nonlinear Semidefinite Programming, Convergence Analysis and Numerical Results in Structural and Multidisciplinary Optimization <i>Roche, Jean R.; Herskovits, José; Bazan, Elmer; Aroztegui, Miguel</i>		
11:15-11:35	5685	<i>Smietanski, Marek J</i>	An Exponential Generalized Newton Method for Solving Unconstrained Optimization Problems <i>Smietanski, Marek J</i>		
11:35-11:55	5763	<i>Costanzo, Stefano</i>	MOGASI: A Multi-Objective Genetic Algorithm for Efficiently Handling Constraints and Diversified Decision Variables. <i>Costanzo, Stefano; Castelli, Lorenzo; Turco, Alessandro</i>		
11:55-12:15	5937	<i>Tobias, Linke</i>	Recent Advances in the Solution of Large Nonlinear Optimisation Problems with WORHP <i>Tobias, Linke; Dennis, Wessel; Christof, Büskens</i>		
12:15-12:35	5965	<i>Goulart, Evandro</i>	Large Scale Sparse Nonlinear Constrained Optimization based on FAIPA, the Feasible Arc Interior Point Algorithm <i>Goulart, Evandro; Herskovits, José</i>		

Session: MS1-02		MS01 - Topology Optimization For Structural Static and Dynamic Failures			Room: VA.2
Chair:	Gil Ho Yoon, Matteo Bruggi				
Hours	ID	Speaker	Title		
10:35-10:55	5474	<i>Michailidis, Georgios</i>	Comparison of Formulations and Strategies for Thickness Control in Shape and Topology Optimization Via a Level-Set Method <i>Allaire, Gregoire; Jouve, Francois; Michailidis, Georgios</i>		
10:55-11:15	5523	<i>Diaz, Alejandro R</i>	A 3D Printing Model Suitable for Topology Optimization <i>Diaz, Alejandro R; Akandeh, Atra; Kwon, Patrick</i>		
11:15-11:35	5544	<i>Rozvany, George I. N</i>	Major Advances in Exact Structural Topology Optimization: Stress and Displacement Based Multi-Load Design <i>Rozvany, George I. N.; Pomezanski, Vanda O.; Sokol, Tomasz; Pintér, Erika</i>		
11:35-11:55	5568	<i>Aulig, Nikola</i>	Towards Multi-objective Topology Optimization of Structures Subject to Crash and Static Load Cases <i>Aulig, Nikola; Nutwell, Emily; Menzel, Stefan; Detwiler, Duane</i>		
11:55-12:15	5586	<i>Christiansen, Asger N.</i>	Combined Shape and Topology Optimization for Minimization of Von Mises Stress <i>Christiansen, Asger N.; Tortorelli, Daniel A.; Aage, Niels; Sigmund, Ole</i>		
12:15-12:35	5813	<i>Sokol, Tomasz</i>	New Numerical and Exact Solutions of Generalized Michell Trusses Subject to Multiple Load Cases <i>Sokol, Tomasz</i>		

Parallel Sessions

Tuesday

September 9th, 2014

14:00 - 16:00

Session: D-06		Design Optimization and Inverse Problems			Room: MA
Chair:	Daniel Tortorelli				
Hours	ID	Speaker	Title		
14:00-14:20	5416	Hallak, Patrícia Habibi	A Genetic Algorithm for Optimization of Spatial Trusses Considering Self-Weight Loads Lemonge, Afonso Celso de Castro Lemonge C.C.; Patrícia, Patrícia Habibi Hallak; Helio, Helio José Corrêa Barbosa; Goliatt, Leonardo Goliatt da Fonseca		
14:20-14:40	5594	Logo, Janos	Optimal Design of Curved Folded Plates by Optimality Criteria Method Balogh, Bence; Logo, Janos		
14:40-15:00	5780	Kanno, Yoshihiro	A Mixed-Integer Programming Approach to Design of Periodic Structures with Negative Thermal Expansion Hirota, Masayuki; Kanno, Yoshihiro		
15:00-15:20	5979	Dzierzanowski, Grzegorz	Multiphase Elastic Structures of Minimal Compliance Cherkaev, Andrej; Dzierzanowski, Grzegorz		
15:20-15:40	6362	Jensen, Hector A.	Component Mode Synthesis Techniques For Reliability-Based Design Optimization of Large Scale Structural Models Jensen, Hector A.		
15:40-16:00	5482	Jahjouh, Mahmoud M	Structural Identification of Two Dimensional Shear Buildings using a Modified Adaptive Harmony Search Algorithm Jahjouh, Mahmoud M; Nackenhorst, Udo		

Session: I-06		Industrial Applications			Room: 02.1
Chair:	Argimiro Secchi				
Hours	ID	Speaker	Title		
14:00-14:20	5389	Vucinic, Dean	The Potential of Support Vector Machines and Kriging in Modelling the Gas Cyclone Performance Elsayed, Khairy; Vucinic, Dean; Lacor, Chris		
14:20-14:40	5468	Reis, Renata Lins	Optimization of a Silver Catalyzed Formaldehyde Plant Using Artificial Neural Networks Reis, Renata Lins; Fontes, Raony Maia; Kalid, Ricardo de Araujo; Fernandes, John Kennedy de Oliveira; Pontes, Karen Valverde		
14:40-15:00	5727	Carvalho, Sandra S H	Mixture Optimization and Analysis of the Chemical Behavior of Different Types of Ethanol For Export Soletti, João Inácio; Carvalho, Sandra S H V; Pedulla, Maria Clara O		
15:00-15:20	5744	Luz Junior, Luiz F. L.	Achievement of Metamodels for Optimization of Methylamines Production Process through Computer Aided Design Machado, Alex V. L.; Leitoles, Delano P.; Lenzi, Marcelo K.; Yamamoto, Carlos I.; Luz Junior, Luiz F. L.		
15:20-15:40	5982	Ivanov, Kirill S	Basics of Optimal Design and Functional Parameters Evaluation for Crushing and Sorting Process Chains in Mining Industry Ivanov, Kirill S; Mezenin, Anton; Vaisberg, Leonid A		
15:40-16:00	5574	Lopes, Manuel Pereira	Optimization of Storage Space in Ports' Cereal Storage Silos - A Case Study Cardoso, Mónica Glória; Ferreira, Eduarda Pinto; Lopes, Manuel Pereira; Lopes, Jorge Cardia		



EngOpt2014

4th International Conference on Engineering Optimization

Session: N-04		Numerical Optimization Techniques			Room: VA.1
Chair:	Sergio Gutierrez				
Hours	ID	Speaker	Title		
14:00-14:20	5548	<i>Pellegrini, Riccardo</i>	Application of Derivative-Free Multi-Objective Algorithms to Reliability-Based Robust Design Optimization of a High-Speed Catamaran in Real Ocean Environment <i>Pellegrini, Riccardo; Rinaldi, Francesco; Campana, Emilio; Diez, Matteo F.; Fasano, Giovanni; Iemma, Umberto; Liuzzi, Giampaolo; Lucidi, Stefano</i>		
14:20-14:40	5567	<i>Bakker, Craig</i>	Multi-Objective Optimization, MDO and Differential Geometry Controlled Pareto Front Solution Spacing <i>Bakker, Craig; Parks, Geoffrey</i>		
14:40-15:00	5580	<i>Wang Mengyun</i>	A Study on Multidisciplinary Design Optimization Method for Unmanned Underwater Vehicle <i>Wang, Mengyun; Wei, Zifan; Yu, Qiang; Yang, Songlin</i>		
15:00-15:20	5777	<i>de Oliveira, Leonardo C</i>	Use of Evolutionary Dynamic Weighted Aggregation for the solutions of Robust Design Optimization <i>de Oliveira, Leonardo C; Monteiro, Hugo VQ; Afonso, Silvana MB</i>		
15:20-15:40	5803	<i>Medina, Juan C</i>	Optimization under Uncertainty through Adaptive Kriging Metamodelling in Augmented Input Space <i>Medina, Juan C; Taflanidis, Alexandros A</i>		
15:40-16:00	5933	<i>Chung, Joon</i>	Aircraft Derivative Design Optimization Process with Uncertainty of Analysis Tools <i>Park, Hyeyoung-Uk; Chung, Joon; Lee, Jae-Woo; Neufeld, Daniel</i>		

Session: MS5-01				MS05 – Optimization of Laminated Composite Structures	Room: VA.2
Chair:	H.C. Rodrigues, A.L. Araujo				
Hours	ID	Speaker	Title		
14:00-14:20	5819	<i>Lund, Erik</i>	On Discrete Material and Thickness Optimization of Laminated Composite Structures using Filters <i>Sørensen, René; Lund, Erik</i>		
14:20-14:40	5915	<i>Figueiredo de Sá, Ricardo</i>	Multi-Objective Optimization of a 3D Composite Structure <i>Figueiredo de Sá, Ricardo; van Hattum, Ferrie W.J.; Sá, César J. M. A.; Nunes, J.P.</i>		
14:40-15:00	5469	<i>Ferreira, Rafael T L</i>	Hierarchical Optimization of Fiber Reinforced Composites for Natural Frequencies <i>Ferreira, Rafael T L; Rodrigues, Hélder C; Guedes, José M</i>		
15:00-15:20	5711	<i>Faria, Alfredo R</i>	Optimization of Composite Structures under Multiple Load Cases using a Discrete Approach Based on Lamination Parameters <i>Faria, Alfredo R</i>		
15:20-15:40	6290	<i>Rezaei, Sepideh</i>	Multi Objective Optimization of Laminated Composite Materials with Weight and Reliability Objective Functions <i>Rezaei, Sepideh; Jalaei Zadeh, Mohammad Foad</i>		
15:40-16:00					

Parallel Sessions

Tuesday

September 9th, 2014

16:15 - 17:55

Session: D-07		Design Optimization and Inverse Problems			Room: MA
Chair:	Martin Bendsoe				
Hours	ID	Speaker	Title		
16:15-16:35	5531	Pedersen, Niels L	On Optimization of Internal/External Spur Gears Tooth Bending Strength Pedersen, Niels L		
16:35-16:55	5841	Rayneau-Kirkhope, Daniel	Optimization of Hierarchical Structures for Withstanding Gentle Compressive Loads Rayneau-Kirkhope, Daniel; Farr, Robert; Mao, Yong		
16:55-17:15	5860	Hedaya, Mohammed M.	Weight Minimization of Truss Structures Subjected to Dynamic Loading Hedaya, Mohammed M.; Elsabbagh, Adel M.; Hussein, Ahmed M.		
17:15-17:35	5588	Messager, Tanguy	Numerical Direct Evolutionary Identification of Constitutive Semi-Crystalline Polymer Model Parameters Abdul-Hameed, Hemin; Messager, Tanguy; Zairi, Fahmi; Naït-Abdelaziz, Moussa		
17:35-17:55	5541	Daróczy, László	Optimizing the External Geometry of a Pick-up Tube for a Pitot-Tube-Jet Pump Meyer, Jan; Daróczy, László; Janiga, Gábor; Thévenin, Dominique		

Session: I-07		Industrial Applications			Room: 02.1
Chair:	Jiri Hrebicek				
Hours	ID	Speaker	Title		
16:15-16:35	5528	Ahn, Jiwoong	Polymer Electrolyte Fuel Cell Performances Enhanced by Under-Rib Convection Ahn, Jiwoong; Lee, Jungkoo; Nguyen, Duy Vinh; Park, Sangki; Kim, Hyung-Man; Choi, Kap-Seung		
16:35-16:55	5573	Sabartova, Zuzana	An Optimization Model for Truck Tyres' Selection Sabartova, Zuzana; Lindroth, Peter		
16:55-17:15	5954	Taler, Jan	Optimum Heating of the Boiler Evaporator Taking into Account Thermal Stresses Taler, Jan; Taler, Dawid; Dzierwa, Piotr; Harchut, Piotr		
17:15-17:35	5864	Wu, Zhiqiang	An Approach to Optimal Design of Golf Clubhead with Considering off-Center Shot Wu, Zhiqiang; Sogabe, Yuji; Arimitsu, Yutaka; Tamaogi, Takayuki		
17:35-17:55	5969	Arzate Salgado, Juan Antonio	Modeling and Parameter Estimation of a Biogas Pilot-Plant Operated with Maize Silage using a Two-Step Model Arzate Salgado, Juan Antonio; Cruz Bournazou, Mariano N; Kirstein, Max; Neubauer, Peter; Junne, Stefan; Habermann, Boris		



EngOpt2014

4th International Conference on Engineering Optimization

Session: MS2-01 MS02 - Optimization in Oil and Gas Industries				Room: VA.1
Chair:	Silvana Bastos, Bernardo Horowitz			
Hours	ID	Speaker	Title	
16:15-16:35	5409	<i>Horowitz, Bernardo</i>	A Multifidelity Approach to Waterflooding Optimization <i>Fragoso, Manuel; Horowitz, Bernardo; Rodrigues, José Roberto</i>	
16:35-16:55	5426	<i>Afonso, Silvana MB</i>	Multicriteria Solutions for Optimum Reservoir Management <i>Afonso, Silvana MB; De Oliveira, Leonardo C; Pinto, Jefferson WO; Horowitz, Bernardo; Willmersdorf, Ramiro B</i>	
16:55-17:15	5488	<i>Eduardo, Camponogara</i>	An MILP Formulation for Scheduling Oil Tankers for Offloading Operations with Variable Travel Time <i>Leonardo, de Assis S; Eduardo, Camponogara; Agustinho, Plucenio</i>	
17:15-17:35	5622	<i>Lenz, Ralf</i>	Optimal Extension of Gas Transmission Networks <i>Lenz, Ralf; Schwarz, Robert; Serrano, Felipe</i>	
17:35-17:55	5661	<i>Fabiany, Fabiany Lamboia L., F.</i>	A Modified Shuffled Frog-Leaping Algorithm to Model Products Transport in Pipeline Networks <i>Fabiany, Fabiany Lamboia L., F.; Valéria, Lúcia Valéria Ramos de Arruda A., L. V.; Flávio, Flávio Neves Jr. N. Jr, F.</i>	

Session: MS5-01 MS05 - Optimization of Laminated Composite Structures				Room: VA.2
Chair:	H.C. Rodrigues, A.L. Araujo			
Hours	ID	Speaker	Title	
16:15-16:35	5569	<i>Piotr, Kedziora</i>	Optimal Design of Composite Structures Subjected to Fatigue Loading in a Fuzzy Environment <i>Piotr, Kedziora; Muc, Aleksander</i>	
16:35-16:55	5726	<i>Oganesyan, Paul A.</i>	Reducing of the Stress Concentration Near Mounting Zones of the Wind Turbine Composite Blade <i>Oganesyan, Paul A; Zhilyaev, Igor V; Shevtsov, Sergey N; Wu, Jiing K; Huang, Jyun P; Shevtsova, Varvara S.</i>	
16:55-17:15	6084	<i>Madeira, José F.A.</i>	Multiobjective Optimization of Damped Composite Sandwich Structures <i>Madeira, José F.A.; Araujo, Aurelio L.; Mota Soares, Cristovao M.; Mota Soares, Carlos A.</i>	
17:15-17:35	6056	<i>Rodrigues, Gonçalo P</i>	Combined Topology and Stacking Sequence Optimization of Composite Laminated Structures for Structural Performance Measures. <i>Rodrigues, Gonçalo P; Guedes, José M; Folgado, João</i>	
17:35-17:55	6023	<i>Jalaei Zadeh, Mohammad Foad</i>	Comparison of Optimization Methods for Weight Minimization of Laminated Composite Panels <i>Jalaei Zadeh, Mohammad Foad; Gharavi, A.R</i>	

Parallel Sessions

Wednesday

September 10th, 2014

08:40 - 10:20

Session: D-08		Design Optimization and Inverse Problems			Room: MA
Chair:	Niels Pedersen				
Hours	ID	Speaker	Title		
08:40-09:00	5491	<i>Brochier, Felipe O. B.</i>	Optimization of an Unitary Split System Air Conditioner with Variable Refrigerant Flow <i>Brochier, Felipe O. B.; Indrusiak, Maria L. S.; Wander, Paulo R.</i>		
09:00-09:20	5587	<i>Stoerkle, Johannes</i>	Optimization and Investigation of the Dynamical-optical Behavior of Mirror Systems <i>Stoerkle, Johannes; Wengert, Nicolai; Eberhard, Peter</i>		
09:20-09:40	5705	<i>Wais, Piotr</i>	Optimization of a Car Radiator Fin Shape <i>Wais, Piotr</i>		
09:40-10:00	5592	<i>Rodrigues, Simão Santos</i>	Design of After-Market Wind Turbine Blade add-ons for Noise Reduction <i>Rodrigues, Simão Santos; Marta, André Calado</i>		
10:00-10:20	5945	<i>Ocal, Arda</i>	Determination of Layer Properties for Full Depth Asphalt Pavements Using Artificial Neural Network Based Gravitational Search Algorithm <i>Ocal, Arda; Pekcan, Onur</i>		

Session: I-08		Industrial Applications			Room: 02.1
Chair:	Masao Arakawa				
Hours	ID	Speaker	Title		
08:40-09:00	5662	<i>Yi, Sung</i>	Design Optimization of Silicon Condenser Microphone <i>Yi, Sung</i>		
09:00-09:20	5771	<i>Köthe, Thomas</i>	Shape Optimization of Aircraft Cabin Ventilation Components using Adjoint CFD <i>Köthe, Thomas; Herzog, Sebastian; Wagner, Claus</i>		
09:20-09:40	5807	<i>Panek, David</i>	Shape Optimization of Inductors for Preheating Before Laser Welding and Hardening. <i>Panek, David; Kotlan, Vaclav; Dolezel, Ivo; Hamar, Roman; Pavel, Kus</i>		
09:40-10:00	6094	<i>Demet, Seyit Mehmet</i>	Experimental Study Optimized with Taguchi Method of Wear Behaviors of Reinforced PTFE Alloy Pivot Pin Bearings <i>Imrek, Hüseyin; Demet, Seyit Mehmet</i>		
10:00-10:20	6304	<i>Firat, Veysal</i>	Determination of Sliding Ratio of V-Belt Pulley Mechanisms by Optimizing the Belt Tension <i>Firat, Veysal; Imrek, Hüseyin</i>		



EngOpt2014

4th International Conference on Engineering Optimization

Session: MS4-01 MS04 - Optimization Methods in Biomechanics and Biomedical Engineering				Room: VA.1
Chair:	P.R. Fernandes, J. Folgado			
Hours	ID	Speaker	Title	
08:40-09:00	5794	<i>Ruben, Rui B.</i>	Optimization of Mandibular Symphysis Plates Positioning Ruben, Rui B.; Dinis, Jairson C.; Kemmoku, Daniel T.; Noritomi, Pedro Y.; Silva, Jorge V.L.	
09:00-09:20	5957	<i>Lino, Jorge</i>	A Framework for Custom Design and Fabrication of Crano-Maxillofacial Prostheses using Investment Casting Csáky, Viktor; Neto, Rui; Duarte, Teresa J.; Couto, Mafalda P.; Machado, Margarida; Lino, Jorge	
09:20-09:40	5975	<i>Ribeiro, Nelson S.</i>	Parametric Optimization of Coronary Stents based on Finite Element Models Ribeiro, Nelson S.; Folgado, João O.; Rodrigues, Hélder C.	
09:40-10:00	6033	<i>Samarra, Miguel</i>	External Fixator Configurations in Tibia Fractures - Numerical Optimization and Experimental Validation Maranha, Vitor; Samarra, Miguel; Neto, Augusta; Amaro, Ana; Roseiro, Luis	
10:00-10:20	6049	<i>Almeida, Henrique A</i>	Structural and Vascular Evaluation of Polymer Degrading Scaffolds Almeida, Susana R; Freitas, Dino M; Almeida, Henrique A; Bártolo, Paulo J	

Session: MS3-01 MS03 - New Advances in Derivative-Free Optimization Methods for Engineering Optimization				Room: VA.2
Chair:	Ana Custódio			
Hours	ID	Speaker	Title	
08:40-09:00	5470	<i>Kux, Steffen</i>	Hybrid Multi-Criterion Optimization Strategies for Complex Technical Problems Kux, Steffen	
09:00-09:20	5865	<i>Kaliszewski, Ignacy</i>	Pareto Suboptimal Designs with Assessments of the Pareto Optimality Gaps Kaliszewski, Ignacy; Kiczkowski, Tomasz; Miroforidis, Janusz	
09:20-09:40	5878	<i>Regis, Rommel G</i>	A Radial Basis Function Algorithm for Constrained Expensive Multi-Objective Optimization Regis, Rommel G	
09:40-10:00	5693	<i>Pires, Tiago T.</i>	Structural Optimization of a Joined Wing Aircraft using DMS Algorithm Pires, Tiago T.; Madeira, J. F. A.; Suleiman, Afzal	
10:00-10:20				

Parallel Sessions

Wednesday

September 10th, 2014

10:35 - 12:35

Session: D-09		Design Optimization and Inverse Problems			Room: MA
Chair:	Erik Lund				
Hours	ID	Speaker	Title		
10:35-10:55	5411	<i>Pedersen, Pauli</i>	Design of Material Anisotropy Constitutive Matrices for Structural Stiffness and Strength Optimization Pedersen, Pauli; Pedersen, Niels		
10:55-11:15	5551	<i>Barbarosie, Cristian</i>	Multi-Objective Optimization of Composite Materials with Negative Poisson Ratios Barbarosie, Cristian; Toader, Anca-Maria; Lopes, Sérgio		
11:15-11:35	6313	<i>Dimitrovová, Zuzana</i>	Optimization of a Material with a Negative Stiffness Provided by an Inherent Bistable Element Heczko, Jan; Dimitrovová, Zuzana; Rodrigues, Hélder		
11:35-11:55	5889	<i>Hao, Junhong</i>	Porosity Distribution Optimization in Insulation Materials by the Variational Method Hao, Junhong; Chen, Qun; Hu, Kang		
11:55-12:15	6021	<i>Tovar, Andres</i>	Optimization of Heterogeneous Microstructure Using Statistical and Physical Descriptors within a Cellular Automaton Reconstruction Framework Emami, Anahita; Wu, Tong; Tovar, Andres		
12:15-12:35	5670	<i>Boussaa, Djaffar</i>	Optimization of Thermoelastic Functionally Graded Materials using a Nonsmooth Newton Method Boussaa, Djaffar		

Session: I-09		Industrial Applications			Room: 02.1
Chair:	Mattia Padulo				
Hours	ID	Speaker	Title		
10:35-10:55	5495	<i>Couceiro, Iván</i>	Structural Optimization of Power Transmission Towers using the Simulated Annealing Algorithm Couceiro, Iván; Martínez, Santiago; París, José; Colominas, Ignasi; Navarrina, Fermín; Casteleiro, Manuel		
10:55-11:15	5634	<i>Brudlo, Krzysztof</i>	Biomimetic Structural Optimization Technique in Multiphysics Industrial Application Nowak, Michał S; Hausa, Hubert; Roszak, Robert; Morzynski, Marek; Brudlo, Krzysztof		
11:15-11:35	5694	<i>Ide, Takanori</i>	Structural Optimization Methods to Design Light Weight Automatic Transmission of Vehicles with Low Radiated Noise Ide, Takanori; Otomori, Masaki; Leiva, Juan Pablo; Watson, Brian C		
11:35-11:55	5742	<i>Lyra, Paulo Roberto M.</i>	Design Optimization of Equivalent Mooring System on Truncated Depth Ferreira, Fábio Martins Gonçalves; Lages, Eduardo N.; Afonso, Silvana Maria B.; Lyra, Paulo Roberto M.		
11:55-12:15	5808	<i>Jakubek, Daria</i>	Adjoint-Based Shape Optimization of High-Speed Trains Jakubek, Daria; Herzog, Sebastian; Wagner, Claus		
12:15-12:35	5814	<i>Mankovits, Tamás</i>	SVR And FEA Based Shape Optimization on Air Spring Bumpers Mankovits, Tamás; Kocsis, Imre; Szabó, Tamás; Vámosi, Attila; Huri, Dávid		



Session: N-05		Numerical Optimization Techniques			Room: VA.1
Chair:	Jean Roche				
Hours	ID	Speaker	Title		
10:35-10:55	5578	<i>Singh, Pushpinder</i>	Solving Dual Hesitant Fuzzy Assignment Problem with Restrictions using Similarity Measure <i>Singh, Pushpinder</i>		
10:55-11:15	5633	<i>Schwarz, Colin</i>	Real-Time Optimization by Indirect NMPC Methods <i>Schwarz, Colin; Callies, Rainer; Szabo, Andrei</i>		
11:15-11:35	5637	<i>Abebe, Geletu</i>	Coupling Analytic Approximation with Polynomial Chaos Collocation to Tackle Non-Convex Chance Constraints in Control Engineering Applications <i>Abebe, Geletu; Pu, Li</i>		
11:35-11:55	5645	<i>Torres-Guardia, Luis</i>	Multi-Stage Stochastic Distribution Model <i>Torres-Guardia, Luis; Guillen de Torres, Tania</i>		
11:55-12:15	5686	<i>Bauma, Elisabeth</i>	A Novel Hybrid Method for Optimal Control Problems and its Application to Trajectory Optimization in Micro Manufacturing <i>Bauma, Elisabeth; Schuster, Thomas</i>		
12:15-12:35	5746	<i>Montanher, Tiago M</i>	Global Estimation of Hidden Markov Models using Interval Arithmetic <i>Montanher, Tiago M; Mascarenhas, Walter F</i>		

Session: MS3-02		MS03 - New Advances in Derivative-Free Optimization Methods for Engineering Optimization			Room: VA.2
Chair:	José Aguilar Madeira				
Hours	ID	Speaker	Title		
10:35-10:55	5530	<i>Carro-Calvo, Leopoldo</i>	Global Optimization Design for Expensive Computational Simulations in Aerodynamics using a Novel Surrogate Model Approach: The Intelligent Estimation Search with Sequential Learning (IES-SL). <i>Carro-Calvo, Leopoldo; Andrés-Pérez, Esther; Salcedo-Sanz, Sancho; Martin Burgos, Mario</i>		
10:55-11:15	5834	<i>Ayres, José Eduardo A.</i>	A New Multimodal Hybrid Differential Evolution Applied to Parameter Estimation in Vapor-Liquid Equilibrium Problem <i>Ayres, José Eduardo A; Domingos, Roberto P; Platt, Gustavo M.</i>		
11:15-11:35	5526	<i>Larson, Jeffrey</i>	Multi-start, Model-based Derivative-free Optimization <i>Larson, Jeffrey; Wild, Stefan</i>		
11:35-11:55	5654	<i>Custodio, Ana Luisa</i>	GLODS: Clever Multistart in Directional Direct Search <i>Custodio, Ana Luisa ; Madeira, José Aguilar</i>		
11:55-12:15	5708	<i>Ambrósio, Jorge</i>	Optimal Railway Vehicle Suspension Design for Improved Running Safety <i>Magalhaes, Hugo; Madeira, José FA; Ambrósio, Jorge; Pombo, João</i>		
12:15-12:35					

Parallel Sessions

Wednesday

September 10th, 2014

14:00 - 16:00

Session: D-10		Design Optimization and Inverse Problems			Room: MA
Chair:	Jorge Belinha				
Hours	ID	Speaker	Title		
14:00-14:20	5904	<i>António, Carlos AC</i>	Determination of Peel Strength Based on Composition of Adhesives for the Footwear Industry using Genetic Algorithm Paiva, Rosa MM; António, Carlos AC; Silva, Lucas FM		
14:20-14:40	5712	<i>Canelas, Alfredo</i>	Inductors Optimal Design in Three-Dimensional Electromagnetic Shaping Problems Canelas, Alfredo ; Roche, Jean R		
14:40-15:00	5748	<i>Osmar, Osmar Francisco Reis Silva OFRS</i>	Hybrid Optimization Algorithm Applied on Multistage Axial Compressor Performance Calculations with Variable Geometry Osmar, Osmar Francisco Reis Silva OFRS; Tomita, Jesuino Takachi Tomita JTT; Bringhenti, Cleverson Bringuenthi CB; Cavalva, Diogo Ferraz cavalca DFC		
15:00-15:20	5759	<i>Martins, Gustavo C.</i>	Piezoelectric Speaker Optimization for Hearing Aid Application through Multi-Physical FE Models Martins, Gustavo C.; Nunes, Paulo R.; Cordioli, Júlio A.		
15:20-15:40	5869	<i>Morga, Mariantonietta</i>	Optimal Design of Tuned Mass Dampers under Non-Stationary Random Excitation Morga, Mariantonietta ; Greco, Rita ; Marano, Giuseppe C		
15:40-16:00	5913	<i>Khominich, Dmitry</i>	Quest of Optimal Polyurethane Damper Geometry Khominich, Dmitry		

Session: I-10		Industrial Applications			Room: 02.1
Chair:	Moacir Kripka				
Hours	ID	Speaker	Title		
14:00-14:20	5368	<i>Sousa, Filipe</i>	Topology Optimization Studies on Wing Morphing Compliant Edges Sousa, Filipe; Lau, Fernando; Suleman, Afzal		
14:20-14:40	5741	<i>Meindlhummer, Martin</i>	Towards a Monolithic Design of Large Aircraft Wing Spoilers using Numerical Topology and Laminate Optimization Meindlhummer, Martin; Schagerl, Martin; Fleischmann, Martin		
14:40-15:00	5822	<i>Melnikovs, Anatolijs</i>	Robust Shape Optimization of Composite Structure Using Metamodels Janushevskis, Alexander; Melnikovs, Anatolijs; Janusevskis, Janis		
15:00-15:20	5949	<i>Zur, Sascha</i>	Optimization of the DLR Spaceliner Inside the Integration Environment RCE Zur, Sascha; Tröltzsch, Anke		
15:20-15:40	5951	<i>Pierre, Duysinx</i>	Shape and Topology Optimization of Lightweight Automobile Transmission Components Pierre, Duysinx; Emmanuel, Tromme; Geoffrey, Virlez; Lise, Noel; Nicolas, Poulet		
15:40-16:00	5980	<i>Bobby, Sarah</i>	Reliability-Based Topology Optimization for Uncertain Building Systems in Seismic Zones Bobby, Sarah; Spence, Seymour; Bernardini, Enrica M. J.; Kareem, Ahsan		



EngOpt2014

4th International Conference on Engineering Optimization

Session: N-06		Numerical Optimization Techniques			Room: VA.1
Chair:	Georgios Michailidis				
Hours	ID	Speaker	Title		
14:00-14:20	5534	<i>Ansola Loyola, Ruben</i>	Results Comparison Between the SIMP and SERA Method for Compliant Mechanisms Design <i>Alonso Gordoa, Cristina; Ansola Loyola, Ruben; Vegueria Lopez, Estrella; Querin, Osvaldo</i>		
14:20-14:40	5559	<i>Mrzyglod, Miroslaw W.</i>	The Evolutionary Method For Topology Optimization Of Super-Light Structures <i>Mrzyglod, Miroslaw W.</i>		
14:40-15:00	5570	<i>Kwak, Sung Kyu</i>	Simultaneous Optimization of Loading Point and Structural Topological Layouts for the Design of Loaded Frames <i>Kwak, Sung Kyu; Kim, Suh In; Ahn, Byungseong; Han, Sangmin; Kim, Yoon Young</i>		
15:00-15:20	5583	<i>Kim, Suh In</i>	Linkage Mechanism Synthesis by Topology Optimization <i>Kim, Suh In; Kang, Seok Won; Kim, Yoon Young</i>		
15:20-15:40	5667	<i>Tajs-Zielinska, Katarzyna</i>	Generating Optimal Topologies with Cellular Automata Based on Irregular Lattices <i>Bochenek, Bogdan; Tajs-Zielinska, Katarzyna</i>		
15:40-16:00	5379	<i>Yoon, Gil Ho</i>	Monolithic FSI Analysis Approach for Stress Based Topology Optimization <i>Yoon, Gil Ho</i>		

Session: MS5-03				MS05 – Optimization of Laminated Composite Structures	Room: VA.2
Chair:	H.C. Rodrigues, A.L. Araujo				
Hours	ID	Speaker	Title		
14:00-14:20	6054	<i>Ferreira, Ana L.</i>	Stacking Sequence Optimization for Fiber-reinforced Flat Panels for stiffness and Natural Vibration Frequency Criteria. <i>Ferreira, Ana L.; Almas, Miguel M; Guedes, José M; Rodrigues, Hélder C</i>		
14:20-14:40	5924	<i>Valido, Anibal Jorge AJ</i>	Optimal Design of Thin-Walled Laminated Beams with Geometrically Nonlinear Behaviour <i>Valido, Anibal Jorge AJ; Barradas Cardoso, João J; Moita, Paulo Jorge PJ</i>		
14:40-15:00	5925	<i>Barradas Cardoso, João J</i>	Optimal Design of Composite Laminated Thin-Walled Cross-Section Properties <i>Barradas Cardoso, João J; Valido, Aníbal Jorge AJ; Moita, Paulo Jorge PJ</i>		
15:00-15:20	6078	<i>Carvalho, Vitor S.</i>	Viscoelastic Material Parameter Estimation in Sandwich Structures <i>Carvalho, Vitor S.; Araujo, Aurelio L.; Maia, Nuno M.M.</i>		
15:20-15:40	5700	<i>Bagci, Mehmet</i>	Determination of Solid Particle Erosion with Taguchi Optimization Approach of Hybrid Composite Systems <i>Bagci, Mehmet</i>		
15:40-16:00	6289	<i>Naimi, Selmen</i>	A Design Optimization Study of a Partially Damped Sandwich Structure <i>Naimi, Selmen; Assaf, Samir; Hamdi, Mohamed Ali</i>		

Parallel Sessions

Wednesday

September 10th, 2014

16:15 - 17:55

Session: D-11 Design Optimization and Inverse Problems				Room: MA
Chair:	Rafael Ferreira			
Hours	ID	Speaker	Title	
16:15-16:35	5492	<i>Polak, Elijah</i>	On the Use of Min-Max Algorithms in Receding Horizon Control Laws for Harbor Defense <i>Polak, Elijah; Lee, Seungho; Walrand, Jean</i>	
16:35-16:55	5981	<i>Louis, Gosselin</i>	Optimization of Heat Exchangers under Uncertainties <i>Louis, Gosselin; Julien, Lambert</i>	
16:55-17:15	6350	<i>Santos, Moises M.</i>	Application of Logic-Structural Matrix in the Allocation Optimization of Devices in Power Systems Distribution <i>Santos, Moises M; Abaide, A. R.; Sperandio, M.; Milke, Tafarel F.</i>	
17:15-17:35	5545	<i>Chang, Chih-Jung</i>	Bi-Objective Wind Farm Optimization with Turbine Blade Design under Uncertainty <i>Chang, Chih-Jung; Chan, Kuei-Yuan</i>	
17:35-17:55	5703	<i>Reith, Dirk</i>	New Ethylene Oxide Force Fields via Global and Local Optimization <i>Krämer, Andreas; Hülsmann, Marco; Köddermann, Thorsten; Reith, Dirk</i>	

Session: I-11 Industrial Applications				Room: 02.1
Chair:	Carlos Conceição António			
Hours	ID	Speaker	Title	
16:15-16:35	5395	<i>Morozov, Valery</i>	Method and System for Control of Flotation Process Based on Preliminary Estimates of Ore Grade <i>Morozov, Valery; Zorigt, Ganbaatar; Loday, Delgerbat; Stolarov, Valeriy</i>	
16:35-16:55	5666	<i>Alvarez-Vazquez, Lino J.</i>	Optimal Control in Moving Domains: An Application to Eutrophication <i>Alvarez-Vazquez, Lino J.; Fernandez, Francisco J.; Martinez, Aurea</i>	
16:55-17:15	5758	<i>Vossen, Georg</i>	Optimal Control for Battery Management Systems <i>Vossen, Georg; Roos, Dirk; Struck, Alexander</i>	
17:15-17:35	5967	<i>Ruiz, Ana B.</i>	Efficient Operation of Power Plants: a Multibjective Optimization Study Based on the Auxiliary Services <i>Ruiz, Ana B.; Luque, Mariano; Cabello, José M.; Ruiz, Francisco</i>	
17:35-17:55	5884	<i>Kripka, Moacir</i>	Minimizing the Environmental Impact f R-C Structural Elements <i>Kripka, Moacir; Medeiros, Guilherme; Fraga, José Luis Fleith de; Marosin, Paulo Roberto Tolotti</i>	



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Session: MS4-02		MS04 - Optimization Methods in Biomechanics and Biomedical Engineering			Room: VA.1
Chair:	P.R. Fernandes, J. Folgado				
Hours	ID	Speaker	Title		
16:15-16:35	5566	<i>Nikitina, Lialia</i>	Local Improvement Algorithm, Nonconvex Pareto Fronts and Applications Clees, Tanja; Hornung, Nils; Nikitin, Igor; Nikitina, Lialia; Steffes-lai, Daniela		
16:35-16:55	5589	<i>Breen, Alexander Cleveland</i>	A Pre-Operational Study Magnification Measurement and Error Estimation of Residual Tibia Kinematics within Below Knee Prosthetics Breen, Alexander Cleveland; Dupac, Mihai; Noroozi, Siamak; Osborne, Neil		
16:55-17:15	5853	<i>Ribeiro, Frederico O</i>	The Callus Formation in Bone Healing as a Shape Optimization Problem Ribeiro, Frederico O; Fernandes, Paulo R; Folgado, João O; Gómez-Benito, María José; García-Aznar, José M		
17:15-17:35	5921	<i>Moita, Paulo JP</i>	Limiting Performance Analysis of a Vehicle's Restraint System Including Pre-Acting Control Moita, Paulo JP; Cardoso, João E B; Valido, Aníbal J J		
17:35-17:55	6007	<i>Belinha, Jorge</i>	The Bone Tissue Trabecular Architecture Prediction using Meshless Methods Belinha, Jorge; Dinis, Lúcia M.J.S.; Natal Jorge, Renato M.		

Session: MS2-02		MS02 - Optimization in Oil and Gas Industries			Room: VA.2
Chair:	Silvana Bastos, Bernardo Horowitz				
Hours	ID	Speaker	Title		
16:15-16:35	5733	<i>Siregar, Septoratno</i>	Pressure Distribution Determination in a Complex Gas Pipeline Network Siregar, Septoratno; Soewono, Edy; Sidarto, Kuntjoro		
16:35-16:55	5994	<i>Órfão, Nuno</i>	Scheduling of Branched Multi-Product Pipelines Órfão, Nuno; Relvas, Susana; Barbosa-Póvoa, Ana Paula		
16:55-17:15	6025	<i>Tapia, Marta</i>	Optimized Ballast Control in Load-out Operations Tapia, Marta; Kaleff, Peter; Garcia, Sandra; Rodriguez, Juan		
17:15-17:35	6048	<i>Soletti, João Inácio</i>	Helicopter Routing Problem applied to Offshore Platforms Soletti, João Inácio; Carvalho, Sandra Helena Vieira; Sousa, Carla Jaciara; Oliveira Júnior, Antônio Martins		
17:35-17:55	5554	<i>Romero, David G</i>	Determining Optimal Routes to Traverse Block Sets Romero, David G; Gaona, Silvia M; Rojano, Miguel A		

Parallel Sessions

Thursday

September 11th, 2014

08:40 - 10:20

Session: D-12		Design Optimization and Inverse Problems			Room: MA
Chair:	Boyan Lazarov				
Hours	ID	Speaker	Title		
08:40-09:00	5418	Parra-Guevara, David	Existence and Uniqueness of the Regularized Solution in the Problem of Recovery the Non-Steady Emission Rate of a Point Source: Application of the Adjoint Method. Parra-Guevara, David; Skiba, Yuri; Reyes-Romero, Arturo		
09:00-09:20	5943	Wang, Qi	Optimal Pitching Axis of Flapping-Wings for Hovering Flight Wang, Qi; Goosen, Johannes; van Keulen, Fred		
09:20-09:40	5776	Pinter, Janos D	Global vs. Local Optimization for Parameter Estimation in Engineering Models Pinter, Janos D; Satish, Mysore G.		
09:40-10:00	5687	Abderrahmane, Habbal	A Nash Game Approach to Solve Elliptic Data Completion Problems Abderrahmane, Habbal; Moez, Kallel		
10:00-10:20					

Session: I-12		Industrial Applications			Room: 02.1
Chair:	Jan Taler				
Hours	ID	Speaker	Title		
08:40-09:00	5616	Ciancio, Claudio	Temperature Prediction in High Speed Incremental Forming Process by Data Mining Technique Ambrogio, Giuseppina; Ciancio, Claudio; Filice, Luigi; Gagliardi, Francesco; Musmanno, Roberto		
09:00-09:20	5893	Jin, Kai	Residual Stress and Distortion after Ejection for Injection Molded Part with Metal-Insert by the Process Chain Analysis Jin, Kai; Jeong, Taesan; Kim, Naksoo		
09:20-09:40	5896	Kim, Taesan	Numerical Analysis and Optimal Design to Reduce Residual Stresses and Deformations of Die Casting Sheets After Ejection Kim, Taesan; Jin, Kai; An, Teagen; Kim, Naksoo		
09:40-10:00	5959	Campos, Hugo RC	On The Optimization and Accuracy of Stress-Strain Curve Determination using Hydraulic Bulge Test Campos, Hugo RC; Santos, Abel D; Martins, Bruno ; Barlat, F.		
10:00-10:20	5565	Nikitin, Igor	Extrapolation Check for Metamodel-Driven Optimization Clees, Tanja; Hüttemann, Martin; Nikitin, Igor; Nikitina, Lalia; Steffes-lai, Daniela		



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Session: MS4-03 MS04 - Optimization Methods in Biomechanics and Biomedical Engineering				Room: VA.1
Chair:	P.R. Fernandes, J. Folgado			
Hours	ID	Speaker	Title	
08:40-09:00	5796	<i>Quental, Carlos</i>	Optimal Approach to the Human Motion Reconstruction within the Limitation of the Kinematic Data Acquisition Procedures Quental, Carlos; Folgado, João; Ambrósio, Jorge; Monteiro, Jacinto	
09:00-09:20	5942	<i>Silva, Maria Elisabete T.</i>	Optimization of the Mooney-Rivlin Constitutive Model Parameters for the Pelvic Floor Muscles, using an Inverse Method Silva, Maria Elisabete T.; Parente, Marco P.L.; Natal, Renato M.J.; Mascarenhas, Teresa	
09:20-09:40	5995	<i>Rodrigues, Carlos M.B.</i>	Human Optimization of Lower Limb Muscle Stretch Shortening Cycle Rodrigues, Carlos M.B.; Correia, Miguel V.; Abrantes, João M.C.S.; Nadal, Jurandir	
09:40-10:00				
10:00-10:20				

Session: DE-01 Design Optimization and Inverse Problems / Efficient Analysis and Reanalysis Techniques				Room: VA.2
Chair:	Marcelo Colaço			
Hours	ID	Speaker	Title	
08:40-09:00	5677	<i>Soleymani Shishvan, Masoud</i>	Long Term Production Planning of Open Pit Mines by Ant Colony Optimization Soleymani Shishvan, Masoud; Sattarvand, Javad	
09:00-09:20	5486	<i>Miranda, Sofia I</i>	Superquantile Regression with Applications to Buffered Reliability, Uncertainty Quantification, and Conditional Value-at-Risk Rockafellar, R Tyrrell; Royset, Johannes O; Miranda, Sofia I	
09:20-09:40	5938	<i>L.F.P., Etman</i>	Specifying Decomposition Structure in Large-Scale MDO: Revision of the Psi Language using a LED Lighting Design Case T., Wilschut; A.T., Hofkamp ; L.F.P., Etman; J.E., Rooda; A.W.J., Gielen	
09:40-10:00	5835	<i>Domingos, Roberto Pinheiro</i>	A Multimodal Differential Evolutionary Applied to Robotic Navigation Problem Domingos, Roberto Pinheiro; Ayres, José Eduardo Almeida; Platt, Gustavo Mendes; Neto, Francisco D. M.	
10:00-10:20	5591	<i>Yilmaz, Serhat</i>	A Proposed Annex Architecture for Enhancing Extrapolation Performance of MLP Neural Networks Yilmaz, Serhat; Ekinci, Onder	

Parallel Sessions

Thursday

September 11th, 2014

10:35 - 12:35

Session: D-13		Design Optimization and Inverse Problems			Room: MA
Chair:	Joaquim Martins				
Hours	ID	Speaker	Title		
10:35-10:55	5558	<i>Rawdon, Blaine Knight</i>	Design Optimization of the Gossamer Condor and Gossamer Albatross Human-Powered Airplanes Rawdon, Blaine Knight		
10:55-11:15	5614	<i>Afonso, Frederico</i>	Multidisciplinary Performance Based Optimization of Aircraft Afonso, Frederico; Vale, José; Lau, Fernando; Suleman, Afzal		
11:15-11:35	5623	<i>Vale, José Lobo</i>	Stochastic Optimization in Aircraft Design Amândio, Luis Filipe; Marta, André Calado; Suleman, Afzal; Afonso, Frederico José; Vale, José Lobo		
11:35-11:55	5702	<i>Burton, Scott A</i>	Air Vehicle Design Optimization using a Multi-Fidelity Model in the Service-Oriented Computing Environment (SORCER) Burton, Scott A		
11:55-12:15	5868	<i>Padulo, Mattia</i>	A Risk-based Approach to Aircraft Design Optimization Padulo, Mattia; Delbove, Julien		
12:15-12:35	5916	<i>Vale, José L.</i>	Performance Based MDO of a Regional Transport Aircraft with a Joined Wing Configuration Vale, José L.; Afonso, Frederico; Lau, Fernando; Suleman, Afzal		

Session: I-13		Industrial Applications			Room: 02.1
Chair:	Jorge Ambrósio				
Hours	ID	Speaker	Title		
10:35-10:55	5773	<i>Silva, Marlon da</i>	Optimization Methods Applied to Nonlinear Signal Interference Models Silva, Marlon da; Senne, Edson Luiz França; Vijaykumar, Nandamudi Lankalapalli		
10:55-11:15	5792	<i>Zietarski, Stanislaw</i>	The Combinatorial-Cyclic Method of Optimization (Cccept) in a Virtual and, Scaled or Full Sized, Physical Prototyping Zietarski, Stanislaw; Kachel, Stanislaw; Kozakiewicz, Adam; Wrzesien, Stanislaw		
11:15-11:35	6004	<i>Q., Catharine Q.</i>	Modeling and Optimization of a Distillation Column using Advanced Optimization Software (ROMeo®) Q., Catharine Q.; P., Karen V.; N., idelfonso B.		
11:35-11:55	6005	<i>Dias, João P</i>	Evolutionary Multiobjective Optimization of Multibody Systems with Application to Vehicle Structures under Impact Dias, João P; Francisco, Paulo R		
11:55-12:15	5806	<i>Werner, Michael</i>	Unified Suspension Optimization Process Considering Robustness Hahn, Youngwon; Cofer, Jack; Choi, Yangwook; Werner, Michael		
12:15-12:35					



Session: N-07		Numerical Optimization Techniques			Room: VA.1
Chair:	Anca Maria Toader				
Hours	ID	Speaker	Title		
10:35-10:55	5465	<i>Kaneko, Hiromasa</i>	Fast Optimization of Hyperparameters of Support Vector Regression Model Considering its Predictive Ability <i>Kaneko, Hiromasa; Funatsu, Kimito</i>		
10:55-11:15	5579	<i>Kuckoski, Adriano</i>	Structural Optimization of Frame Structures by Integer Programming with Failure Constrains <i>Kuckoski, Adriano; Fonseca, Jun</i>		
11:15-11:35	5636	<i>Ergünes, Biket</i>	Interval Partitioning Methods for Mixed Integer Nonlinear Problems <i>Ergünes, Biket; Ozdamar, Linet; Demir, Onur; Gülcen, Nur</i>		
11:35-11:55	5683	<i>Mohamed Amine, Bouhlel</i>	Kriging Combining Partial Least Squares for Optimization in High Dimension <i>Mohamed Amine, Bouhlel; Nathalie, Bartoli; Morlier, Joséph; Otsmane, Abdelkader</i>		
11:55-12:15	5689	<i>Miranda, João</i>	A One-Step Discrete Adjoint-Based Approach for Combined Design Optimization and A Posteriori Error Estimation <i>Miranda, João; Elsayed, Khairy; Lacor, Chris; Abraham, Simon</i>		
12:15-12:35	5804	<i>da Silva Junior, C. A.</i>	A Metric to Assist the Selection of the Particle Swarm Optimization Parameters <i>da Silva Junior, C. A.; Saba, W. B.; Abe, N. M.; Passaro, A.</i>		

Parallel Sessions

Thursday

September 11th, 2014

14:00 - 16:00

Session: D-14		Design Optimization and Inverse Problems			Room: MA
Chair:	Habbal Abderrahman				
Hours	ID	Speaker	Title		
14:00-14:20	5552	<i>Siegbert, Roland</i>	Development of an Objective Function for Die-Swell in Extrusion Die Design Siegbert, Roland ; Elgeti, Stefanie ; Behr, Marek		
14:20-14:40	5737	<i>Pascu, Adrian</i>	Simulation of Polymeric Membrane in ASPEN Plus for CO2 Post-Combustion Capture Pascu, Adrian; Badea, Adrian; Dinca, Cristian; Stoica, Laurentiu		
14:40-15:00	5882	<i>Xu, Yunchao</i>	Theoretical Analyses in the Influence of Heat and Mass Transfer on the Conversion Rate of Methanol Decomposition Xu, Yunchao; Chen, Qun		
15:00-15:20	5738	<i>Stoica, Laurentiu</i>	Absorber Design for Improving the CO2 Post-Combustion Capture Efficiency Stoica, Laurentiu; Badea, Adrian; Dinca, Cristian; Pascu, Adrian		
15:20-15:40	5883	<i>Wang, Yifei</i>	Experimental Studies of Central Variable Water Volume Chiller System Optimization for Energy Conservation Wang, Yifei; Chen, Qun		
15:40-16:00					

Session: I-14		Industrial Applications			Room: 02.1
Chair:	Filipa Moleiro				
Hours	ID	Speaker	Title		
14:00-14:20	5519	<i>Jayachandran, K P</i>	Simultaneous Optimization of Orientation and Concentration in Piezoelectric Composites Jayachandran, K P; Guedes, J M; Rodrigues, H C		
14:20-14:40	6055	<i>Matos, Agostinho M</i>	Optimization Computational Model for Piezoelectric Energy Harvesters Considering Material Piezoelectric Microstructure Matos, Agostinho M; Guedes, José M; Jayachandran, Kuzhichalil P; Rodrigues, Hélder C		
14:40-15:00	5800	<i>Albino, Larissa LAS</i>	Tactical Decision Model for Emergency Response for Oil Spills on The Sea Albino, Larissa LAS; Tapia, Lucio LUC		
15:00-15:20	5983	<i>Badawy, Rashad</i>	Quantum-Inspired Evolution for Smart Building Energy Management in Future Power Networks Badawy, Rashad; Yassine, Abdulsalam; Heßler, Axel; Hirsch, Benjamin; Albayrak, Sahin		
15:20-15:40	6006	<i>Pereira de Lima, Euclides</i>	Experimental Methodology for Quantification Analysis of Methane Emission Applied to the Charcoal Production in Laboratory Maia, Ivana Márcia Oliveira; Rodrigues de Carvalho, Solidônio; Borges, Valério Luiz; Pereira de Lima, Euclides Antonio; Mota, Rogério Lima; Barbosa, Lívia Domingos		
15:40-16:00	5615	<i>Derbala, Ali -</i>	A “2-Jobshop and One Conveyor” Scheduling Problem Bouali, Abdenacer -; Derbala, Ali -; Bouiche, Abdelhak -		



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Session: N-08		Numerical Optimization Techniques			Room: VA.1
Chair:	Cristian Barbarosie				
Hours	ID	Speaker	Title		
14:00-14:20	5721	<i>Ishibashi, Ken</i>	Application of Cellular Automaton to Combinatorial Optimization Problems <i>Ishibashi, Ken ; Furuta, Hitoshi ; Nomura, Yasutoshi ; Nakatsu, Koichiro ; Takahashi, Kyosuke</i>		
14:20-14:40	5747	<i>Phan, An Thanh</i>	Method of Orienting Curves for Determining Delaunay Triangulations <i>Phan, An Thanh ; Dinh, Giang Thanh ; Le, Trang Hong</i>		
14:40-15:00	6014	<i>Ginho, Jorge Cipriano Fernandes dos Santos JCFS</i>	A New Draft of Resolution to the P-Median Problem <i>Ginho, Jorge Cipriano Fernandes dos Santos JCFS</i>		
15:00-15:20	5873	<i>Dolatshah, Azam</i>	Investigation of Energy Dissipation over Stepped Spillways using a Hybrid FV - ANN Technique <i>Dolatshah, Azam ; Imani Khoshkho, Hasan ; Mashal, Mahmoud</i>		
15:20-15:40	5628	<i>Brigadnov, Igor A.</i>	Regularization of Non-Convex Plastic Boundary Value Problems <i>Brigadnov, Igor A.</i>		
15:40-16:00					

Parallel Sessions

Thursday

September 11th, 2014

16:15 - 17:55

Session: D-15		Design Optimization and Inverse Problems			Room: MA
Chair:	Alfredo Faria				
Hours	ID	Speaker	Title		
16:15-16:35	5833	<i>Martins, Joaquim R. R. A.</i>	Aircraft Wing Design via High-Fidelity Aerostructural Optimization <i>Martins, Joaquim R. R. A.</i>		
16:35-16:55	5752	<i>Christiansen, Rasmus E</i>	Benefits and Challenges when Performing Robust Topology Optimization for Interior Acoustic Problems <i>Christiansen, Rasmus E; Jensen, Jakob S; Lazarov, Boyan S; Sigmund, Ole</i>		
16:55-17:15	5462	<i>Nastase, Adriana</i>	Influence of Start Values of Optimization Over the Global Optimized Shapes of Flying Configurations <i>Nastase, Adriana</i>		
17:15-17:35	5644	<i>Alghamdi, Saeid A</i>	Durability-Based Design-Optimization of RC Beams and Columns in Corrosive Environments <i>Alghamdi, Saeid A</i>		
17:35-17:55					

Session: I-15		Industrial Applications			Room: 02.1
Chair:	Cristovão Mota Soares				
Hours	ID	Speaker	Title		
16:15-16:35	5611	<i>Musial, Jedrzej</i>	Online Goods Brokering <i>Musial, Jedrzej</i>		
16:35-16:55	5832	<i>Bautzer, Claudio C.G.S.B,S</i>	Thermo-Structural Analysis of the Separation System of Satellite Launcher Vehicle Payload for Aluminium and Steel <i>Bautzer, Claudio C.G.S.B,S; Machado, Humberto H.A. M</i>		
16:55-17:15	5952	<i>Grilo, Teresa TG</i>	Optimal Control of Passive Particles Advection by Two-Dimensional Point Vortices <i>Grilo, Teresa TG; Lobo Pereira, Fernando FLP; Gama, Sílvio SG</i>		
17:15-17:35	5973	<i>Ahani, Parisa</i>	A New Approach for Optimizing Economic Load Dispatch Problem with Valve-Point Effects <i>Ahani, Parisa</i>		
17:35-17:55	5999	<i>Montañez-Barragán, Brenda</i>	Optimization of Bioactive Compounds Extraction from Coffee Waste Using Box-Behnken Experimental Design <i>Mirón-Mérida, Vicente; Montañez-Barragán, Brenda; Barragán-Huerta, Blanca E</i>		



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Session: N-09		Numerical Optimization Techniques			Room: VA.1
Chair:	K. Jayachandran				
Hours	ID	Speaker	Title		
16:15-16:35	5550	<i>Ribau, João P.</i>	Optimization of Financial Savings and Life Cycle CO₂ emissions of Hybrid Bus Powertrains Considering the Energy Management Strategy and Design <i>Ribau, João P.; Silva, Carla M.; Sousa, João M.</i>		
16:35-16:55	5584	<i>Zhang Sheng</i>	Comprehensive Optimization of the Ship Performance for USV and its Methods <i>Zhang Sheng, Yang SongLin, Zhang GongYu, Wen YiYan</i>		
16:55-17:15	5827	<i>Platt, Gustavo M</i>	Application of the Flower Pollination Algorithm in Nonlinear Algebraic Systems with Multiple Solutions <i>Platt, Gustavo M</i>		
17:15-17:35	5840	<i>Yavuz, Mehmet</i>	Istanbul Stock Exchange (Bist) Index Prediction with Neural Networks During the Financial Crises <i>Yavuz, Mehmet; Sakarya, Sakir; Karaoglan, Aslan Deniz; Ozdemir, Necati</i>		
17:35-17:55	5809	<i>Schatz, Markus</i>	Structural Design Optimization of Aerospace Structures Considering Material Selection and Sizing <i>Schatz, Markus; Wehrle, Erich; Baier, Horst</i>		

Poster Session

Wednesday

September 10th, 2014

10:20 - 17:55

Poster Session				Room: Hall 1
Hours	ID	Presenter	Title	
10:20-17:55	5381	Kobelev, Vladimir V.	PARETO and NASH Fronts as the Limit Case of the Isoperimetric Inequality in Multiobjective Optimization Theory Kobelev, Vladimir V.	
	5490	Messager, Tanguy	Practical Interest of "Anti-Optimal" Solutions in Optimal Structural Design Messager, Tanguy; Pyrz, Mariusz	
	5522	Ruiz-Molina, Juan Carlos	A Widely Linear System for Quaternion Estimation Ruiz-Molina, Juan Carlos; Navarro-Moreno, Jesus; Fernandez-Alcala, Rosa Maria	
	5536	Park, Hyo Seon	Performance Based Optimal Seismic Retrofit Technique for pre-Northridge Steel Moment Frames by Using Genetic Algorithm Oh, Byung Kwan; Choi, Se Woon; Kim, Yousok; Park, Hyo Seon	
	5538	Lin, Shin-Yeu	Heuristic Distributed Algorithm for Optimization of Time Slot Utilization in RFID Reader Network Lin, Shin-Yeu; Hsieh, Chia-Hsiang	
	5572	Tabbuso, Pietro	Comparison Between Unrestricted Dynamic Shakedown Design and a New Probabilistic Approach for Structures under Seismic Loadings Palizzolo, Luigi; Benfratello, Salvatore; Tabbuso, Pietro	
	5590	Kobelev, Vladimir	Topological Derivatives for Fundamental Frequencies of Elastic Bodies Kobelev, Vladimir	
	5621	Oclon, Pawel	The Performance Optimization of the High Temperature Fin And Tube Heat Exchanger using the Continous Genetic Algorithm. Oclon, Pawel; Lopata, Stanislaw; Weglowski, Bohdan; Pilarczyk, Marcin	
	5641	Brigadnov, Igor A.	Minimization of Nonsmooth Functions in the Limit Analysis Problem of Electrostatics Brigadnov, Igor A.; Fedotova, Ekaterina M.	
	5679	Gouveia, Nuno D.	A Minimization Procedure for the Determination of SFRC Tensile Behaviour Gouveia, Nuno D.; Faria, Duarte M. V.; Ramos, António M. P.; Custódio, Ana L.	
	5692	Taler, Jan	Inverse Procedure for Determining Transient Fluid Temperature Based on Temperature Responses of the Thermometer and Pipeline Wall Taler, Jan; Jaremiewicz, Magdalena	
	5699	Carvalheira, Pedro de F. V.	Design Optimization of the Centrifugal Clutch of the M3165 Four-Stroke Internal Combustion Engine Carvalheira, Pedro de F. V.	
	5701	Karaskova, Adela	Use of Genetic Algorithms for Spare Parts Distribution System Rybickova, Alena; Karaskova, Adela; Mockova, Denisa	
	5720	Dawid, Taler	Determining Heat Transfer Correlations for Transition and Turbulent Flow in Ducts Dawid, Taler	
	5728	Nakao, Atsuyuki	Development of an Adaptive Experimental Design Method Based on Probabilities to Achieve Requirements and Quantity of Information on Next Experiments Nakao, Atsuyuki; Kaneko, Hiromasa; Funatsu, Kimito	
	5760	Centeno González, Felipe O	Programming the Inverse Thermal Balance for a Bagasse-Fired Boiler, Including the Application of a Optimization Method in MATLAB Centeno González, Felipe O; Martínez Reyes, Arnaldo M; Lesme Jaén, René; Villa Nova, Helcio F; Silva Lora, Electo E; Gonçalvez, José L	
	5805	Ribeiro Costa, Victor Thauan	Reaeration Coefficient Sensitivity Analysis For Water Quality River Modelling Ribeiro Costa, Victor Thauan; Lugon Junior, Jader; Watts Rodrigues, Pedro Paulo	



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Poster Session				Room: Hall 1
Hours	ID	Presenter	Title	
10:20-17:55	5824	<i>Carmo, Shirlene Kelly Santos</i>	Modeling and Analysis of Control in One Unit Compression Chlorine <i>Carmo, Shirlene Kelly Santos; Vasconcelos, Luis Gonzaga Sales; Emerenciano, Mariângela Da Silva Araújo</i>	
	5901	<i>Kocsis, Imre</i>	SVM Variants Used in the Investigation of Some Engineering Optimization Problems <i>Kocsis, Imre; Mankovits, Tamás; Vámosi, Attila; Deák, Krisztián</i>	
	5923	<i>Camponogara, Eduardo</i>	A Mathematical Programming Formulation for Robust Production Optimization of Gas-Lifted Oil Fields <i>Hulse, Eduardo O.; Camponogara, Eduardo</i>	
	5936	<i>Zambolini-Vicente, Bruno G. G. L.</i>	Optimization of Multimodal Circuits for the Passive Control of Vibrations of Composites Structures <i>Silva, Victor A. C.; Zambolini-Vicente, Bruno G. G. L.; de Lima, Antônio M. G.</i>	
	5948	<i>Amado, Franco D. R.</i>	Productivity and Optimization of the Brew Production by Mash Variation <i>Amado, Franco D. R.; Barreto, Vinicius B.; Cruz, Kaiza V.</i>	
	5968	<i>Anochi, Juliana JAA</i>	Data Assimilation with Artificial Neural Networks Self-Configured by MPCA Meta-Heuristic <i>Anochi, Juliana JAA; Campos Velho, Haroldo HFCV; Shiguemori, Elcio EHS; Luz, Eduardo EFPL</i>	
	5977	<i>Ahani, Parisa</i>	A Novel Approach for Optimal Integration of Small Electric Vehicles with Diesels Vans in Urban Freight Transport <i>Ahani, Parisa; Farias, Tiago; Melo, Sandra</i>	
	5978	<i>Tovar, Andres</i>	Thin-Walled Component Design Optimization for Crashworthiness using Principles of Compliant Mechanism Synthesis and Kriging Sequential Approximation <i>Liu, Kai; Tovar, Andres; Detwiler, Duane</i>	
	5986	<i>Michał, Ciałkowski</i>	Regularization of an Inverse Problem by Imposing the Stiffness on the Graphs of its Solutions <i>Michał, Ciałkowski; Nikolai, Botkin; Jan, Kolodziej; Andrzej, Frackowiak; Andrzej, Mackiewicz; Agnieszka, Wroblewska</i>	
	5991	<i>Regis, Rommel G</i>	An Adaptive and Locally-Biased Optimization Method Using Kriging Metamodels <i>Regis, Rommel G</i>	
	5996	<i>Montañez-Barragán, Brenda</i>	Optimization of Extraction of Phenolic Compounds In Cactus Pear (<i>Opuntia Ficus-Indica</i>) Waste Cladodes using Box-Behnken Design of Experiments <i>Mirón-Mérida, Vicente; Montañez-Barragán, Brenda; Barragán-Huerta, Blanca E</i>	
	5997	<i>Sumida, Ivana Yoshie IYS</i>	New Meta-Heuristic for Determining Flight Dynamic Parameters <i>Sumida, Ivana Yoshie IYS; Campos Velho, Haroldo Fraga HFCV; Luz, Eduardo Favero Pacheco EFPL; Cruz, Ronaldo Vieira RVC; Góes, Luiz Carlos Sandoval LCSG</i>	
	6000	<i>Vasconcelos, Angela Lucínia Urtiga</i>	Study of the Dynamic Behavior and Development of the Optimal Procedure of Startup a Thermally Coupled Distillation Column <i>Vasconcelos, Angela Lucínia Urtiga; Nunes, Ícaro Cazé; Vasconcelos, Luis Gonzaga Sales; Brito; Romildo Pereira</i>	
	6002	<i>Q., Catharine Q.</i>	Artificial Neural Networks Structure Selection: The benefits of Cross Validation Method <i>N., idelfonso B.; Q., Catharine Q.; P., Karen V.</i>	
	6028	<i>Albayrak, Ugur</i>	Assessment of Corrosion and Mechanical Properties of Rebar Used in a 50 Years-Old Reinforced Concrete Industrial Building <i>Canbaz, Mehmet; Albayrak, Ugur; Unluoglu, Esref</i>	
	6029	<i>Unluoglu, Esref</i>	Examination of Material Properties and Carbonation of Concrete in a 50-Year-Old Structure <i>Canbaz, Mehmet; Albayrak, Ugur; Unluoglu, Esref</i>	
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	6057	<i>Coelho, Helena</i>	FAIPA_MAT and FAIPA_SCI: A Library for Non Linear Constrained Optimization in Matlab and Scilab <i>Coelho, Helena; Herskovits, José</i>	

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Graphic Design: Barros Design

Programme at a glance

	SUNDAY September 7	MONDAY September 8	TUESDAY September 9	WEDNESDAY September 10	THURSDAY September 11
08:40		Registration	Parallel Sessions	Parallel Sessions	Parallel Sessions
10:20		Opening Session Main Auditorium 10:05 - 10:20			Coffee Break
10:35		Coffee Break	Coffee Break	Coffee Break	
12:35		Parallel Sessions	Parallel Sessions	Parallel Sessions	Parallel Sessions
14:00		Lunch	Lunch	Lunch	Lunch
16:00	Registration 15:00 - 18:00	Parallel Sessions	Parallel Sessions	Parallel Sessions	
16:15		Coffee Break	Coffee Break	Coffee Break	Coffee Break
17:55		Parallel Sessions	Parallel Sessions	Parallel Sessions	Closing Session, MA
20:00		Welcome Reception		Congress Banquet	
					20:00