

TRIZ Future Conference 2012 Programme

Tuesday, 23 October

17:30-19:00 Early-Bird Registration and Welcome Drink (Porto de Honra) (at Meliã Aldeia dos Capuchos Hotel)

Wednesday, 24 October

08:30-17:00 Registration

09:00-10:30 Basic Tutorial - TRIZ: Introduction and Key Paradigms of Systematic Innovation, Valeri Souchkov **(Room B)**
ICG Training & Consulting, The Netherlands

09:00-10:30 Advanced Tutorial - Bio TRIZ: Black Sheep and White Crow, Olga A. Bogatyreva **(Room A)**
BioTRIZ Ltd, The University of Bath, UK

10:30-11:00 Coffee-Break

11:00-11:30 Conference Opening Ceremony **(Room A)**

11:30-12:15 Keynote Speaker - Where Does TRIZ Start?, Sergei Ikoenko **(Room A)**
Massachusetts Institute of Technology /GEN3Partners, USA

12:15-13:15 Full Scientific Contributions – 1 (Room A) Full Practitioners Contributions – 1 (Room B)

TRIZ in the Aftermath of a Transnational Post-war History - Claudia Mareis	TRIZ Wins a Tender: Designing a Crash Barrier - Iouri Belski, Teng Tat Chong, Anne Belski, Richard Kwok
Application of Logistic Growth Curve - Kucharavy Dmitry, De Guio Roland	Application of TRIZ to the New Definition of "Business" - Ellen Domb, Timothy Brewer

Short Contributions – 1 (Room C)

Possibilities of applying TRIZ methodology elements (the 40 Inventive Principles) in the process of architectural design - Igor Labuda	The study of the dynamics of socio-psychological features of personality in the process of developing methods of resolving contradictions – Liudmila Semenova, Tatyana Sycheva
A Heuristic Method of Using the Pointers to Physical Effects in Su-Field Analysis - Wei Yan, Cecilia Zanni-Merk, François Rousselot, Denis Cavallucci, Pierre Collet	The Algorithm for Solving Problems (ASP) in Non-technical Areas - Liudmila Semenova

13:15-14:45 Lunch

14:45-16:15 Full Scientific Contributions – 2 (Room A) Full Practitioners Contributions – 2 (Room B)

Idea creation: Function Synthesis Approach with Simplification and Evaluation - Shun Takahashi, T. Mizokami, K. Goto, Hiroshi Hasegawa	A step closer towards zero defects by eliminating Laser mark Hardcoding - Darin Moreira Anthony Vincent
Using TRIZ to invent failures – concept and application to go beyond traditional FMEA - Christian M. Thurnes, Frank Zeihsel, Svetlana Visnepolshi, Frank Hallfell	Establishing general methodologies of creative problem-solving / task-achieving: Beyond TRIZ - Toru Nakagawa
Integration of OTSM-TRIZ and Analytic Hierarchy Process for choosing the right solution - Yuri Borgianni, Francesco S. Frillici, Federico Rotini	How the use of TRIZ led to design a novel bistable electromagnetic fastening device - Alain Riwan, Julie Bonnemason, Dominique Ponsort

14:45-16:15 Short Contributions – 2 (Room C)

Iranian Students' Innovations Through TRIZ Principles: From Generating Theories to Practice - Hooshang Ettelaee, Z. Saghaee, S. Mahdi	Aspects of teaching TRIZ in organizations - Christoph Dobrusskin
Case Study in TRIZ: Design of a Research Combustor for Pressurized Operation with High Wall-Temperature - Daniel Vaz, Helena V. Navas	Poke-Yoke and Inventive Principles - Matej Hohnjec
"Quick TRIZ 2012" in Korea as a Simplified TRIZ Process - Kyeongwon Lee	Re-/Design to Cost supported by TRIZ - Jens Hammer, Dr. Robert Adunka

16:15-16:45 **Coffee-Break**

16:45-18:15 **Full Scientific Contributions – 3**

(Room A)

Product Architecture definition: evaluating the potentiality of TRIZ tools - Lorenzo Fiorineschi, Francesco Saverio Frillici, Paolo Rissone, Gaetano Cascini
Knowledge based approach for formulating TRIZ contradictions - Tiziano Montecchi, Davide Russo
TRIZ-based Systematic Device Trimming: Theory and Application - D. Daniel Sheu, Chun Ting Hou

Full Practitioners Contributions – 3 (Room B)

Full Practitioners Contributions - 4 (Room C)

Teaching TRIZ at TU Munich - Phillip Schrieverhoff, Udo Lindemann	The application of Idea Final Result in the design of a Pneumatic Foot Pump for rural areas - Godwin I. Ekong
Creative and Inventive Design Support System: Concept making of Biped Robot for Intrinsically Safety Design - Hiroshi Hasegawa, Junya Tabuchi, Akimine Suzuki, Takayuki Kashiwakura	The application of 40 inventive principles in tip clearance control concepts in Gas turbine H.P compressors - Godwin I. Ekong
Problem-solving Processes based on Expert Engineers' Solutions - Heikan Izumi, M. Sawaguchi	OTSM TRIZ Application for an Interoperable Pantograph - T. Nagel, Jörg Torsten Maas, Wolfram Tessmer

18:15 **Transport to Hotel**

19:30 **Conference Banquet**

22:30 **Return to Hotel**

Thursday, 25 October

08:30-17:00 **Registration**

09:00-09:45 **Keynote Speaker** - Towards Inventive Computers Thanks to Artificial Evolution, Pierre Collet
Strasbourg University, France

(Room A)

09:45-11:15 **Full Scientific Contributions – 4 (Room A)**

Full Practitioners Contributions – 5 (Room B)

Substance Field Analysis and Biological Functions - Yael Helfman Cohen, Yoram Reich, Sara Greenberg	Systematically identifying reuse applications for supporting goods - Paul-Armand Verhaegen, Dennis Vandevenne, Joost R. Dufloy
Measuring inventive performance of R&D teams - Ali Taheri, Denis Cavallucci, David Oget	Systematic Innovation In Enabling Hybrid Based Preventive Maintenance - Nagappan Annamalai, Lean Teng Yew
Towards Automatic and Accurate Lead User Identification - Sanjin Pajo, Paul-Armand Verhaegen, Dennis Vandevenne, Joost R. Dufloy	Identifying and Realizing Innovation Potentials at a Drum Brake Using WOIS and TRIZ Methods - Kai Hiltmann, Hans-Herbert Hartan, Wilhelm Heubner

11:15-11:45 **Coffee-Break**

11:45-13:15 **Full Scientific Contributions – 5 (Room A)**

Full Practitioners Contributions – 6 (Room B)

TRIZ and the Paradigms of Social Sustainability in Product Development Endeavors - Shantesh Hede, Paula Ferreira, Manuel, Luis Rocha	Establishing TRIZ in a global company - Karen Gadd, Pauline Marsh
Quality Management and Ergonomics: an integrative approach through the ETdA system approach - Isabel Loureiro, Celina Leão, P. Arezes	Function Value Map - Ives De Saeger, Kim Rutten, Valeri Souchkov
Proposal of Organization Framework Model, using Business Processes and Hierarchical Patterns to provide Agility and Flexibility in Competitiveness Environments - O. Agostinho	New method for TRIZ-contradictions - Petr Shimukovich

13:15-14:45 **Lunch**

14:45-15:30 **Keynote Speaker** - TRIZ and Human Factors and Ergonomics, Denis Alves Coelho
Universidade da Beira Interior, Portugal

(Room A)

15:30-16:30	Full Scientific Contributions – 6 (Room A)	Short Contributions – 3 (Room B)
	A lexico-syntactic pattern matching method to extract IDM-TRIZ knowledge from on-line patent databases - A. Souili, D. Cavallucci, F. Rousselot	How could the TRIZ tool help continuous improvement efforts of the companies? - Laura Maia, Anabela Alves, Celina Leão
	TRIZ evolution of the Object-Oriented Programming Languages - Victor Berdonosov, Alena Zhivotova, Tatiana Sycheva	Mechanical behavior and durability of fiber concrete in a corrosive environment (sewers) - Ourdia Fedaoui-Akmoussi, Raoul Jauberthie, Salah Kaci, Laurent Molez
		TRIZ-based algorithm for Biomimetic design - Nikolay Bogatyrev, Olga Bogatyreva
		Revealing end-user driven insights using TRIZ tools - Fons Sweegers

16:30-17:00 Coffee-Break

17:00-18:00	Full Scientific Contributions – 7 (Room A)	Full Practitioners Contributions – 7 (Room B)
	TRIZ as a tool to develop a TRIZ educational method by learning it - Pascal Sire, Gilles Haefffelé, Sebastien Dubois	The Principle of Feeling. The Method of Structural Systemic Constellations for Technical Problem Solving and Decision Making - Olga Livotova, Pavel Livotov
	ARIZ85 and Patent-driven Knowledge Support - Niccolò Becattini, Yuri Borgianni, Gaetano Cascini, Federico Rotini	Production problems solving based on negative effect and non-desirable component identification - Ivan Masin, Pavel Jirman

18:15 Transport to Hotel

19:30 Dinner + Fados (optional event)

22:30 Return to Hotel

Friday, 26 October

08:30-11:00	Registration	
09:00-9:45	Keynote Speaker - Continuous Improvement Road Map, Luís Esteves (Room A) Amorim Group, Portugal	
09.45-11:15	Full Scientific Contributions – 8 (Room A)	Full Scientific Contributions – 9 (Room B)
	Assessment of TRIZ potential on companies Innovation Capacity. Illustration with the Hybrid Boiler designed at Bosch Thermotechnology - Marc Trela, C. Gazo, J. Omhover, A. Aoussat	Brewing Free Beer: Using Ideality to develop a 'free-to-use' TRIZ Effects Database - Andrew Martin
	Does TRIZ change people? evaluating the impact of TRIZ training within an organization: implications for theory and practice - Lilly Haines-Gadd	Design Support Method for Implementing Benefits of Inconvenience inspired by TRIZ - Kosuke Naito, Hiroshi Kawakami, Toshihiro Hiraoka
	Methodology and Software for New Product Ideation - Marco Aurélio de Carvalho, Jônathas Gobbi Benazi Grillo, Rodolfo Krul Tessari	Developing a lean supply chain performance framework in a SME: a perspective based on the balanced scorecard - Hugo Afonso, Maria do Rosário Cabrita

11:15-11:45 Coffee-Break

11:45-12:45	Full Practitioners Contributions – 8 (Room A)
	How TRIZ beginners can find and solve inventive problems with 5 simple tools among all TRIZ tools - Sara Saliminamin, Mehdi Parvin, Mahmoud Karimi, Hooriye Khoshghalb
	Technological innovation process of a steam iron, using and improving the TRIZ methodology - E. Rojas, S. Jobs, W. Whitman

12:45-13:00 Conference Close (Room A)

13:00-14:30 Lunch & Transport to Hotel

14:30-16:00 ETRIA Members meeting (Room A) & Transport to Hotel