

Start time	Sessions / Breaks	Track 1	Track 2
13.00	Registration		
13.30	Tutorials	<i>Beginners Tutorial Part I</i>	<i>Advanced Tutorial Part I</i>
		TRIZ 101 - How it works and what it can do for you - Basic theory and structure of TRIZ - Which problems are suitable for the TRIZ-method and how can they be solved? - How to find the right approach for your specific challenges? Thomas Nagel, Lead Design Excellence, Bombardier Transportation	Directed Evolution – What will the product of the future look like? -How can TRIZ predict the evolution of products? - What problems will the products of the future have? - Which future technologies will influence the evolution? Boris Zlotin, TRIZ-Scientist and student of Genrich Altshuller / CTO, Ideation International, USA
15.00	Coffee Break		
15.30	Tutorials	<i>Beginners Tutorial Part II</i>	<i>Advanced Tutorial Part II</i>
		TRIZ 101 - How it works and what it can do for you - Basic theory and structure of TRIZ - Which problems are suitable for the TRIZ-method and how can they be solved? - How to find the right approach for your specific challenges? Thomas Nagel, Lead Design Excellence, Bombardier Transportation	Directed Evolution – What will the product of the future look like? -How can TRIZ predict the evolution of products? - What problems will the products of the future have? - Which future technologies will influence the evolution? Boris Zlotin, TRIZ-Scientist and student of Genrich Altshuller / CTO, Ideation International, USA
17.00	End of tutorials		
18.30	Welcome Reception	Get together event - with finger food & drinks	

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08.30	Registration		
09.00	Welcome Speech	Prof. Dr. Pavel Livotov, President - ETRIA - European TRIZ Association	
09.15	Organisational announcements	Nina Defounga, Conference management	
09.25	Opening Keynote	Use of TRIZ-methodology for strategic decision making in train onboard subsystems. Luc J. Roy, Head of CTO Subsystems Platform, Bombardier Transportation.	
	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>Systematic innovation with TRIZ in industrial environment</i>
10.15		From TRIZ Analysis to TRIZ problem solving. Dobruskin, Christoph	TRIZ industrial case studies: a critical survey. Spreafico, Christian; Russo, Davide
10.45	Coffee Break +	TRIZ EXPO	
11.30		Educating a Creative Engineer: Learning from Engineering Professionals. Belski, Iouri; Adunka, Robert; Mayer, Oliver	Case study: TRIZ for minimal invasive surgery device. Gronauer, Barbara; Schobert, Thomas
12.00		Directed Evolution® - an update after a decade. Zusman, Alla; Boris, Zlotin.	The Variopanto - With TRIZ from idea to reality. Tessmer, Wolfram; Maaß, Jörg-Torsten
12.30		TRIZ in science. Reviewing indexed publications. Chechurin, Leonid	Innovation methodology applied to offshore hydrocarbon production. Chauvel, Marlène; Gazo, Claude; Muguerra, Philippe
13.00	Lunch		
14.15	Keynote presentation	Governing Creativity. Yoram Reich, Prof. for Mechanical Engineering, Tel Aviv University & President and Founder of Israel Institute for Empowering Ingenuity.	
	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>Systematic innovation with TRIZ in industrial environment</i>
15.00		Modelling Constraints in Conceptual Design Process with TRIZ and F3. KAMARUDIN, Khairul Manami; RIDGWAY, Keith; HASSAN, Mohd Roshdi	Redesign of a Spray Coating System for Paperboards Using TRIZ Techniques. Samuel, Philip; Bennington, Derek; Brits, Riaan; Miller, Brian

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15.30		Solving Complex Problems and TRIZ. Czinki, Alexander; Hentschel, Claudia	TRIZ methodological consideration for the impact banding improvements. Kim, Soo Yong; Kim, Sung Dae; Woo, Sang Bum
15.55	Coffee Break +	TRIZ EXPO	
	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>Systematic innovation with TRIZ in industrial environment</i>
16.30		Value stream analyses for complex processes and systems. Toivonen, Teemu; Siitonen, Juha	Applications of TRIZ and Axiomatic Design: a comparison to deduce best practices in industry. Borgianni, Yuri; Matt, Dominik T.
17.00		From Altshuller to Alexander: Towards a bridge between architects and engineers. Najari, Amirabbas; Dubois, Sebastien	Case Study: Gob Loading in a Glass Moulding Machine. Hiltmann, Kai; Neubauer, Tobias.
17.30		The application of 14 inventive principles of TRIZ to mathematical problems. Hoc, Michal; Jurci, Milan; Medvecky, Stefan	Using TRIZ to study the innovation of multiple stakeholder systems fusion in the product-service system. Dong, Dan; Cao, Guozhong; Du, Chunyun; Li, Menglin; Tan, Runhua
17.55	Coffee Break +	TRIZ EXPO	
18.00	ETRIA Board meeting	<i>non-public session for ETRIA board members</i>	
19.30	Gala-Dinner	Gala-Dinner + Best Paper Award	

Start time	Sessions / Breaks	Track 1	Track 2	Track 3
	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>TRIZ and the early stage of the innovation process</i>	<i>TRIZ in combination with other tools and methods</i>
08.30		Method of ranking in the function model. Efimov-Soini, Nikolai; Chechurin, Leonid	Integrating TRIZ with Front End of Innovation Frameworks. Samuel, Philip; Bennington, Derek; Domb, Ellen	How Design for Maintenance can benefit from TRIZ tools. Vaneker, Tom; van Diepen, Tijmen
09.00		A new set of measurement standards in a circuit breaker application. Russo, Davide; Spreafico, Christian	Contradiction-centred identification of new business fields and development directions. Pfeuffer, Verena; Dr. Scherb, Bruno	How does the Design Thinking Process compensate the weakness of TRIZ. Lee, Kyeongwon
09.30	Keynote presentation	Systematic Production Innovation. Dr. Gerd Esser, CEO, INPRO - An innovative company for advanced production systems in the automotive industry, Berlin		
10.15	Organisational announcements	Nina Defounga, Conference management		
	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>TRIZ and the early stage of the innovation process</i>	<i>TRIZ in combination with other tools and methods</i>
10.20		TRIZ based Modelling and Value Analysis of products as processes. Cooke, John	Research on optimization of TRIZ application driven by design needs and targets. Liu, Wei; CAO, Guozhong; TAN, Runhua	Adaptation of Subconscious-Conscious Introspection in Solving Technical Problems. Sickafus, Ed.
10.45	Coffee Break			
		<i>TRIZ in progress: new methods and research results</i>	<i>TRIZ and the early stage of the innovation process</i>	<i>Knowledge mining and big data analysis</i>
11.15		Problem dependence of level-based idea space variety for Systematic Biologically-Inspired Design. Vandevenne, Dennis; Pieters, Thomas; Vanneste, Cies; Joost, Duflo	A Needs Analysis Approach to Product Innovation Driven by Design. Guo, Jing; Tan, Runhua; Sun, Jianguang; Ren, Jianliang; Qiu, Yang	BIG Patent DATA and PanSensic Social Media Contradiction-Mapping Analysis: an opportunity for TRIZ. Dewulf, Simon; Mann, Darrell

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11.45		Eight Fields of MATCEMIB Help Students to Generate More Ideas. Belski, Iouri; Livotov, Pavel; Mayer, Oliver.	Typical Patterns of Business Model Innovation Strategies. Souchkov, Valeri	Supporting decision making and requirements evaluation with knowledge search and problem solving. Russo, Davide; Duci, Stefano
12.15		Services evaluation and problem formulation for systematic innovation in logistics. Angelini, Carlo; Cascini, Gaetano	Validation of Kando Requirements in the Kando Understanding Support Process Using V-model. Saito, Eisuke; Takezawa, Satoshi; Hasegawa, Hiroshi	Key technologies for sustainable design based on patent knowledge mining. Cao, Guozhong; Luo, Panfeng; Wang, Longfei; Yang, Xing
12.45	Lunch			
14.00	Keynote presentation	Rolls Royce – More than 100 years of innovation in aircraft propulsion. Ulrich Wenger, Head of Research & Technology, Rolls-Royce Germany.		
	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>TRIZ and the early stage of the innovation process</i>	<i>Knowledge mining and big data analysis</i>
14.45		Compromise: A New Approach based on the Butterfly Model for Contradiction Problem Solving. Hyun, Jung Suk; Park, Chan Jung	Technology based university spin offs – Why do they succeed or fail? Cilliers, Kobus; Mann, Darrell.	Ideality-Based Bibliographic search. Fayemi, Pierre-Emmanuel; Duci, Stefano; Schöfer, Malte; Maranzana, Nicolas; Bersano, Giacomo
15.15		The application of TRIZ Methodology in the rapid development of any sector of the Nigerian Economy through a Special Intervention Fund Technique [SIFT]. Ekong, Godwin	Supporting the Clarification Task of the design process with TRIZ Tools. Frillici, Francesco Saverio; Fiorineschi, Lorenzo; Rotini, Federico	Automatic Patent Technology Transfer. Montecchi, Tiziano; Russo, Davide
15.45		From a Toolbox to a Way of Thinking - An Integrated View on TRIZ. Nähler, Horst Thomas; Gronauer, Barbara	TRIZ to support Blue-Design of Products. Brad, Stelian; Mocan, Bogdan; Brad, Emilia; Fulea, Mircea	Design methodology for process improvements and innovative light applications. Roderburg, Andreas
16.15		Problem solving methods of Standard Solutions under the analogy thinking. WANG, Qiuyue; YANG, Bojun; DUAN, Xiuling	User in engineering innovative design and contradiction identification*. HOUSSIN, Remy; SUN, Xiaoguang; RENAUD, Jean; GARDONI, Mickael	-

16.40	Coffee Break	
17.00	Workshops	Three workshop topics will be selected by the participants and announced at the conference
	Workshop topics	<ol style="list-style-type: none">1. Corporate TRIZ: How to implement TRIZ into the innovation process2. TRIZ for Services: How TRIZ supports service design3. TRIZ education: Cooperation of industry and universities4. Extending TRIZ: Combination with other systematic methodologies for product development5. TRIZ future: Middle and long term perspectives6. TRIZ markets: Building business models and discovering "Blue Oceans"
18.00	End of the conference day	

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08.30	Keynote presentation	Integration of TRIZ in Context of Further Company Processes. Prof. Dr.-Ing. Oliver Mayer, Senior Principal Engineer, General Electric Global Research.		
09.15	Organisational announcements	Nina Defounga, Conference management		
	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>Systematic innovation with TRIZ in industrial environment</i>	<i>TRIZ Education and learning techniques</i>
09.20		Can Laws of Technological Systems Evolution Replace Biomimetic Design Principles? Greenberg, Sara	Application of TRIZ in building industry: study of current situation. Renev, Ivan; Chechurin, Leonid	Competency-based learning in TRIZ - teaching TRIZ-forecasting as example. Thurnes, Christian M.; Fuchs, Rudy; Zeihsel, Frank
09.40		IoT and the future as seen from the perspective of TRIZ. Yi, Hyunju	TRIZ Approach to Solve the EAF Breakage in FeNi production process. Jeong, Younghan	Creativity, Learning Techniques and TRIZ. Bertocelli, Tiziana; Mayer, Oliver; Lynass, Mark
10.00		New solution oriented bionic innovation method LOBIM - applied in automotive industry. Eckert, Nick	TRIZ as an amplifier for corporate creativity and corporate innovation ability. Gronauer, Barbara; Naehler, Horst	TRIZ already 35 years in the Czech Republic. BUSOV, Bohuslav; ZIDEK, Jan; BARTLOVA, Milada
10.20		VDI 4521: Part 1 and further works. Hiltmann, Kai; Adunka, Robert; Thurnes, Christian; Mayer, Oliver; Koltze, Karl; Livotov, Pavel; Müller, Wolfgang	Behind the curtains of an innovation initiative at a major Asian conglomerate. Ohler, Michael; Shahani, Naresh; Sushil Borde	-
10.45	Coffee Break			

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	Presentations	<i>TRIZ in progress: new methods and research results</i>	<i>TRIZ and the early stage of the innovation process</i>	<i>TRIZ and risks analysis</i>
11.15		USIT: A Concise Process for Creative Problem Solving Based on the Paradigm of 'Six-Box Scheme' - USIT Manual and USIT Case Studies. Nakagawa, Toru	Employing customer value criteria to address networks of contradictions in complex technical systems. Becattini, Niccolò; Borgianni, Yuri; Frillici, Francesco Saverio	A Combination of TRIZ and Reliability Engineering to develop Endurance Test. Hess, Juergen
11.45		Crisis Situation in Engineering Design: TRIZ Approach for solving Crisis Situations. Münzberg, Christopher; Hammer, Jens	Intangibles: Exploring The Missing Half Of TRIZ. Mann, Darrell	Abstraction and Generalization in Conceptual Design Process: Involving Safety Principles in TRIZ-SDA Environment. KAMARUDIN, Khairul Manami; RIDGWAY, Keith; ISMAIL, Napsiah
12.15		Research of Products' Function Decomposition Drive by reasoning of Physical Quantity. Li, Menglin; Cao, Guozhong; Liu, Wei; Du, Chunyun; Dong, Dan; Tan, Runhua	Estimation of New-Product Success by a Network of Experts within Companies. Livotov, Pavel	An Approach to identify the readiness level of a Solution Concept in an Inventive Design Method. CHINKATHAM, Thongchai; Souili, Achille; Taheri, Ali; Cavalucci, Denis
12.45	Farewell Lunch			
14.00	Closing the Conference	Evaluation of the conference. Closing of the conference by the ETRIA president.		
14.20	ETRIA Members Meeting	Open ETRIA Members Meeting		
16.00	End of the conference			