

World WTSP Catalogs (A0P) World TRIZ Sites Top Catalog (©) for Print

Current Active Version: Latest Update: Jun. 4, 2020

Editor: Toru Nakagawa (OGU)

Posted: Jun. 7; Jun. 10, 2020



Editor's Note (Toru Nakagawa, Jun. 4, 2020)

Our WTSP Catalogs have the structure of Indexes of sites having hyperlinks to individual sites in various Site Description files. Such a structure is useful for building and updating a large scale of Catalogs, but not convenient for users to read the Catalogs. Here I start a printable file of WTSP Catalog, where the description of sites are arranged according to a WTSP Index.

In this case, (A0P) World TRIZ Sites Top Catalog (©) in Print shows all the © TRIZ sites in their site description in the order of the (A0) World TRIZ Sites Top (©) Index [Engl](#). Besides this HTML page, a PDF file for printing is posted [Engl PDF](#).

Please read through this Catalog. What do you find? Please feedback your impressions and suggestions via email to Nakagawa.

Note (TN: Jun. 15, 2020):

(A0) World TRIZ Sites Top Index (©) [Engl](#)
 (A0P) World TRIZ Sites Top Catalog (©) for Print ==> [Engl](#) [Engl PDF](#) (Jun. 15, 2020)
 (A2) World TRIZ Sites Basic Index (©) [Engl](#)

Top of this page	(A0) Top Index	(A0P) Top	(a) Info Sending	(b) Promotor	(c) Public	(d) Academia	(e) Developer	(e5) Training	(f) Publishing	(g) Info sharing	(h) User	(i) Personal	(A0P) PDF Engl PDF
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World WTSP Catalogs -- (A0) World TRIZ Sites Top Index (©) (Jun. 6, 2020)

This is an abbreviated Index for (A0P). Sites are arranged according to the (main) Role of site.

Site code	Eval	Site Name Site domain URL	Site Location	Site Language	Role of site	Single-line Description
RUL-01	©	The official foundation of G.S. Altshuller https://www.altshuller.ru (Russian) https://www.altshuller.ru/world/eng/index.asp (English)	Ru	Ru, En	(a1) Dedicated for information sending, (e1) Method developers, (f3) Repository, (g3) Knowledge sharing	Providing undistorted works of Genrikh S. Altshuller (1926-1998)
RUL-02	©	OTSM by Nikolai Khomenko https://otsm-triz.org (Russian) https://otsm-triz.org/en (English)	By	Ru, En	(a1) Dedicated for information sending, (e1) Method developers, (f3)	Nikolai N. Khomenko (1954-2011), Master of TRIZ, the author of the General

					Repository, (g3) Knowledge sharing	Theory of Strong Thinking (OTSM). .
TN2A-04	©	TJ (The TRIZ Journal) https://triz-journal.com/	USA	en	(a2) Public Web sites, (a1) Dedicated information sending	
JP-01	©	TRIZ Home Page in Japan (Toru Nakagawa) https://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/ (English) https://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/ (Japanese)	jp	en, jp	(a2) Public Web site, (e1) Method developer	Dedicated for TRIZ proliferation in Japan and world.
RUL-03	©	Methodologist https://www.metodolog.ru	Ru	Ru	(a1) Dedicated for information sending, (e1) Method developers	Editor: Alexander Kudrjavitsev, Master of TRIZ,
RUL-05	©	Education for a New Era https://www.trizway.com	Ru	Ru	(a1) Dedicated for information sending, (e1) Method developers, (e5) Training organizations, (h3) Educational organizations	For development of creative skills, for teachers, parents, leaders of educational projects.
RUL-30	©	TRIZ Master Leonard Vikentjev https://vikent.ru	Ru	Ru	(a1) Dedicated for information sending, (f3) Repository, (e1) Method developers	For the study of geniuses and professional creativity; repository of research data.
RUL-20	©	TRIZ-Art school of Roman Florescu "TRIZ-CREATIVITY" https://florescu.ucoz.ru	Mo	Ru	(a1) Dedicated for information sending, (e1) Method developers,	Scientific and pedagogical site on integration of TRIZ in visual arts
TN2F-06	©	TRIZ Power Tools (OpenSourceTRIZ.com) https://www.opensourcetriz.com/	USA	en, many in automatic translation	(a1) Dedicated for information sending, (e1) Method developers, (g3) Knowledge sharing	
RUL-04	©	MATRIZ (The International TRIZ Association) https://matriz.org (English) https://matriz.info (Russian)	Ru	Ru, En, Jp, Cn, Kr, Fr, Pl	(b1) Dedicatged associations, (b3) International conferences, (e5) Training organizations,	International association for promoting TRIZ by conferences, trainings, certifications, publishing, etc.
TN2F-02	©	AI (The Altshuller Institute for TRIZ Studies) https://www.aitriz.org/	USA	en	(b1) Dedicated association, (b3) Ingternational conferences	
					(b1) Dedicated	

TN2A-03	©	ETRIA (The European TRIZ Association) https://etria.eu/portal/	EU	en	association, (b3) International conferences	
RUL-36	©	TRIZ Summit / TDS http://triz-summit.ru/ (Russian) https://triz-summit.ru/en/ (English)	Ru	Ru, En	(b1) Dedicated associations, (b3) Intgernational conferences, (e1) Method developers	International public organization as a public laboratory of methods of invention
MY-01	©	MyTRIZ (Malaysia TRIZ Innovation Association) Official Website https://mytriz.com.my/	Malaysia	en	(b1) Deducated associations, (b4) Domestic conferences, (e5) Training organizations	Public association for proliferating TRIZ in Malaysia and South East Asia.
CN-01	©	National Engineering Research Center for Technological Innovation Method and tool https://triz.hebut.edu.cn/	cn	cn	(c2) National organizations, (d1) Universities, (e1) Method developers, (d4) Consultants, (d5) Training organizations, (g3) Knowledge sharing,	Research, training and consultation on TRIZ
TN2A-47	©	Systematic Innovation Inc. http://www.systematic-innovation.com/	UK	en	(e1) Method developers, (e4) Consultants, (a1) Dedicated for information sending, (f2) Publisher	
TN2A-48	©	AULIVE https://www.innovationlogic.com.au/	Australia	en	(e1) Method developers, (a1) Dedicated for information sending, (g3) Knowledge sharing, (f2) Software/tool developers, (e5) Training organization	
TN2F-07	©	GEN-TRIZ https://www.gen-triz.com/	USA	en	(e1) Method developers, (e4) Consultants, (e8) Solution providers, (e7) Networking/matching	
TN2F-04	©	Ideation International, Inc. (Where Innovation Begins) http://www.whereinnovationbegins.net/	USA	en	(e4) Consultants, (e1) Method developers, (e2) Software/tool developers	
TN2A-06	©	ICG (ICG Training & Consulting) https://www.xtriz.com/	Netherlands	en	(e4) Consultants, (a1) Dedicated for information sending, (e1) Method developers	
RUL-12	©	Institute of Innovative Design http://triz-guide.com (English) http://rus.triz-guide.com/ (Russian)	Ru	En, Ru	(e5) Training organization, (h3) Educational organization, (e1) Method developers	Distance learning of classical TRIZ under the guidance of Dr. Yuri

RUL-07	©	Global Russian Academy of Modern TRIZ by Prof. Michael Orloff https://www.gramtriz.com	De	Ru	(e5) Training organizations, (e1) Method developers, (h3) Educational organizations	Salamatov Training TRIZ with educational methodology and models of Modern TRIZ
TN2A-12	©	Wikipedia https://en.wikipedia.org/wiki/	USA	en, many	(g3) Knowledge sharing	Public encyclopedia authored and edited by voluntary people

World WTSP Catalogs -- (A0P) World TRIZ Sites Top Catalog (©) in Print (Jun. 6, 2020)

Based on (A0) World TRIZ Sites Top Index (©). Sites are arranged according to the (main) Role of site.

(a) Information sending sites

RUL-01 © The official foundation of G.S. Altshuller <http://www.altshuller.ru> (Russian),
<https://www.altshuller.ru/world/eng/index.asp> (English) Location: Ru Language: Ru, En
Roles: (a1) Dedicated for information sending, (e1) Method developers, (f3) Repository, (g3) Knowledge sharing

Creating a reference point (standard) for people who want to independently get acquainted with classical TRIZ; providing undistorted (and sometimes little-known) works of Genrikh Saulovich Altshuller (1926-1998) for users and developers of the theory.

Larissa Komarcheva foundation@altshuller.ru Michael Orloff, 17 July, 2019 (Approved by the site owner)

Site Description Form WTSP (World TRIZ Sites Project) (Version: 2019/6/13 TN)
Team: RUL Site Code: RUL-01 Writer: Larisa Komarcheva Date: 2020/3/9


Item	Description	(Instructions)
Site Name **	The official site of the G.S. Altshuller Foundation	
Site domain URL **	https://www.altshuller.ru (Russian) https://www.altshuller.ru/world/eng/index.asp (English)	
Site Location **	Owner's location is St. Petersburg, Russia. Web-hosting is Amazon	Refer the codes
Site Language **	Russian (most materials) and some materials in English, German, French and Spanish. Also, there is the correct translation of basic terms of TRIZ to 19 languages at the website.	Refer the codes
Roles of Site **		Refer the codes
Evaluation **	©	Refer the codes Use ©○□△— marks
Single-line		

Description *		
Application phase *		Refer the codes
Application Fields *		Refer the codes
Methods *		Refer the codes
Description of Introduction *	The Official G.S. Altshuller Foundation, together with the Rights Holders of the Altshuller copyrights, created this website so that anyone can find amongst all the above of the original texts of the creator of TRIZ-RTV-TRTL, Genrikh Saulovich Altshuller (15 October 1926 – 24 September 1998). That is one of the goals behind the creation of the website and the G.S. Altshuller Foundation: to present the undistorted (reference) works of G.S. Altshuller to the users of the theory he created.	Free format, in 5-10 lines
Further Detailed Information		Optional
Note of description		Remarks for further revision

Note: Adjust/expand the cell spaces as you need.

Refer the codes in "Multi sets of Indexing Schemes for the WTSP DB System" (2019/5/18 TN).

** Mandatory, * Desirable

See some more detail in: WTSP Mails and Letters "Introduction of the Site "Official Altshuller Foundation" Communications between Larisa Komarcheva and Toru Nakagawa" Feb. 28 -- Mar. 12, 2020  (Apr. 21, 2020)

See [Site Introduction by Larisa Komarcheva: SiteIntro-RUL-01-AltshullerFoundation.html](#)  (Apr. 21, 2020)

Note (Toru Nakagawa, Jun. 6, 2020) Besides Russian language, this site has the following subdomains in four more languages:

In Russian: <https://www.altshuller.ru/>

In English: <https://www.altshuller.ru/world/eng/index.asp>

In German: <https://www.altshuller.ru/world/ger/index.asp>

In French: <https://www.altshuller.ru/world/fra/index.asp>

In Spanish: <https://www.altshuller.ru/world/spa/index.asp>

RUL-02 © OTSM by Nikolai Khomenko <https://otsm-triz.org> (Russian), <https://otsm-triz.org/en> (English) Location: By Language: Ru, En

Roles: (a1) Dedicated for information sending, (e1) Method developers, (f3) Repository, (g3) Knowledge sharing

The site is dedicated to the work of the Master of TRIZ, the author of the General Theory of Strong Thinking (OTSM) Nikolai Nikolaevich Khomenko (1954-2011). The works from the archive of Nikolai Khomenko (articles, presentations, audio and video materials) in Russian and English are published here.

Dmitry Kucheravy, Andrey Kuryan andrew.kuryan@gmail.com Michael Orloff, 17 July, 2019 (Approved by the site owner)

TN2A-04 © TJ (The TRIZ Journal) <https://triz-journal.com/> Location: USA Language: en


Roles: (a2) Public Web sites, (a1) Dedicated information sending Site search 3,030 pages



The TRIZ Journal started as early as in 1996 as a Web site dedicated for introducing and proliferating TRIZ, by the co-editors of Ellen Domb and Jim Kowalick. It posted several to ten articles every month written by the editors and various authors over the world, thus served for spreading the understanding of classical and modernized TRIZ in the Western world.

The operation of TRIZ Journal was handed to Real Innovation Network in 2006 but stopped posting new articles in 2010. BMGI re-launched it in 2015 but stopped new posting in 2016. Even during these difficult years, the archives of all the articles were kept accessible.

In January 2018, Darrell Mann, Systematic Innovation, re-launched the TRIZ Journal as the public Web site. A wide variety of articles are posted regularly and frequently, mostly by the Editor himself.

--- Written by Toru Nakagawa, Sept. 27, 2019

JP-01 © TRIZ Home Page in Japan (Editor: Toru Nakagawa) <http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/> (in Japanese) 

<http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/> (in English)   Location: jp Language: en, jp
Roles: (a2) Public Web site, (a1) Dedicated information sending, (e1) Method developer, (d1) Universities

Editor: Toru Nakagawa (Professor (1998-2012)/Professor Emeritus (2012-) of Osaka Gakuin University). He established this site in Nov. 1998 (Nov. 1 in Japanese and Nov. 15 in English), and has been posting new TRIZ-related information actively with unfixed interval of 2 to 4 weeks constantly till present.


The site posts introductory articles, overviews, papers, conference reports, etc. on TRIZ with a wider scope. Pages in Japanese and pages in English are posted more or less in parallel. The articles/papers are written not only by the Editor (in Japanese and in English), but also by many Japanese authors (in Japanese and some in English translation) and by many overseas authors (in Japanese translation and some in English). It has four 'Entrance Pages' adapted for four types of readers (i.e., for Children and high school students, for Students and the general public, for Engineers and researchers novice to TRIZ, and for Practitioners and experts of TRIZ); they show categorized lists of (pretty many) recommended pages with annotation.

The Editor's research themes have evolved from (a) introduction and proliferation of (classical and modernized) TRIZ, to (b) introduction and extension of USIT (Unified Structured Inventive Thinking), (c) proposal of Generalized Methodology for Creative Problem Solving (CrePS), and (d) Research on the Principal Contradiction ('Liberty vs. Love') of Human Culture.

--- [Written by Nakagawa T. on 2018/4/3; Much enhancement of description is desirable.]

Site Description Form WTSP (World TRIZ Sites Project) (Version: 2019/6/13 TN)
Team: JP Site Code: JP-01 Writer: Toru Nakagawa Date: 2020/2/13

Item	Description	(Instructions)
Site Name **	TRIZ Home Page in Japan	
Site domain URL **	http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/ in English http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/ in Japanese	
Site Location **	jp	Refer the codes
Site Language **	en, jp	Refer the codes
Roles of Site **	(a2) Public Web site, (a1) Dedicated information sending, (e1) Method developer, (d1) Universities,	Refer the codes
Evaluation **	© Most important in the world	Refer the codes Use ©○□△- marks
Single-line Description *	Public Web site dedicated for TRIZ proliferation in Japan and in the world. Editor Toru Nakagawa	
Application phase *	(b) Problem finding and analysis phase, (c) Solution generation phase, (g) Others: Education	Refer the codes
Application Fields *	(c) Engineering, (a) General/universal, (g) Humanity fields	Refer the codes
Methods *	(e) Systems analysis, (g) Idea generation tools, (n) Modernized TRIZ methods: USIT method, Six-Box Scheme	Refer the codes
Description of Introduction *	Active public site in TRIZ since 1998, publicizing many articles by various international authors besides the editor Toru Nakagawa. Selected papers by Japanese authors are posted in	Free format, in 5-10 lines

	English, while those by international authors in Japanese translation. Nakagawa's Personal Reports of TRIZCONs and ETRIA TFCs are unique. His research papers concern Introduction of TRIZ into Japan, Extension of USIT (Unified Structured Inventive Thinking), Development of CrePS (Creative Problem Solving Methodology), and Principal Contradiction of Human Culture.	
Further Detailed Information	Please refer much detailed introduction in the html file: Site Introduction for the WTSP Catalogs: TRIZ Home Page in Japan (Written by Toru Nakagawa, Feb. 12, 2020): SiteIntro: JP-01-THPJ.html 	Optional
Note of description	Written as a sample	Remarks for further revision

Note: Adjust/expand the cell spaces as you need.

Refer the codes in "Multi sets of Indexing Schemes for the WTSP DB System" (2019/5/18 TN).

** Mandatory, * Desirable

RUL-03 © Methodologist <https://www.metodolog.ru> Location: Ru Language: Ru

Roles: (a1) Dedicated for information sending, (e1) Method developers

The site under editing of Alexander Kudrjajtsev, Master of TRIZ, is dedicated to inventive problems and methods of their solution.

Alexander Kudrjajtsev metodolog1@yandex.ru

Michael Orloff, 17 July, 2019 (Approved by the site owner)

RUL-05 © Education for a New Era <https://www.trizway.com> Location: Ru Language: Ru

Roles: (a1) Dedicated for information sending, (e1) Method developers, (e5) Training organizations, (h3) Educational organizations

Website is the library of materials of various formats on TRIZ-pedagogy. Purpose: Development of creative skills. For teachers, parents, leaders of educational projects.

Anatol Hin lot@trizway.com

Michael Orloff, 17 July, 2019 (Approved by the site owner)

RUL-30 © TRIZ Master Leonard Vikentjev <https://vikent.ru> Location: Ru Language: Ru

Roles: (a1) Dedicated for information sending, (f3) Repository, (e1) Method developers

Portal is devoted to the study of geniuses and professional creativity, as well as creative techniques that increase the likelihood of solving non-banal problems. Portal publishes a significant amount of data relating to the creative development of man from ancient times until modern authors.

Leonard Vikentjev vikent-2011@bk.ru

Michael Orloff, 17 July, 2019 (Approved by the site owner)

RUL-20 © TRIZ-Art school of Roman Florescu "TRIZ-CREATIVITY" <https://florescu.ucoz.ru> Location: Mo Language: Ru

Roles: (a1) Dedicated for information sending, (e1) Method developers,

Scientific and pedagogical site on integration of TRIZ in visual arts and other artistic systems; TRIZ-didactics

Roman Florescu florescu@mail.ru

Michael Orloff, 17 July, 2019 (Approved by the site owner)

TN2F-06 © TRIZ Power Tools (OpenSourceTRIZ.com) <https://www.opensourcetriz.com/> Location: USA Language: en

Roles: (a1) Dedicated for information sending, (e1) Method developers, (g3) Knowledge sharing

Note (TN, Sept 27, 2019): This is a wonderful system of eBooks authored principally by Larry Ball. Introductions, e.g. purpose, usage, structure, recommendations of studying, etc, are explained first in 4 short videos. He met "TRIZ as an Exact Science" by G. Altshuller in 1989 and studied, used, and taught TRIZ and invention algorithms for many years, while keep brushing up his own understanding. He posted his teaching materials in the TRIZ Journal in 2002 and its revised edition "Hierarchical TRIZ Algorithms" in 2005.

The present eBooks "TRIZ Power Tools" were posted in May 2018, after much revisions. The contents are mainly based on TRIZ but reflects other methods including Design Thinking, Disruptive Innovations and Marketing, Blue Ocean Strategy, Theory of Constraints, and One Simple Idea. He says the best way to learn deeply is to recreate knowledge after your own understanding, according to modern learning theory. All of the books and materials on this site are free. While all of the class materials are copyrighted, they can be downloaded and printed for personal and classroom use without fear of copyright violation. It is remarkable that the texts written in English can be translated automatically into (practically) any language with the Google translator without waiting.

The contents are composed of two big groups. (A) Inventive Jobs (e.g., Discovering markets, Creating offerings (products/services), Designing and prototyping, Reducing offering burdens, Resolving problems, Selling of licensing your offering) and (B) Inventive Skills (e.g., Resolving contradictions, Working with functions, Idealizing useful functions, Idealizing informing functions, Idealizing harmful functions, Discovering cause, Discovering why targeted objects are required, Mobilizing function resources, Neutralizing harmful functions). These jobs and skills are to be used in various ways of appropriate combinations, as guided by the eBook navigation.

-- Written by Toru Nakagawa, Sept. 27, 2019

(b) Promotor organizations

RUL-04 © MATRIZ (The International TRIZ Association) <https://matriz.org> (in English), <https://matriz.info> (Russian)

Location: Ru Language: Ru, En, Jp, Cn, Kr, Fr, Pl

Roles: (b1) Dedicated associations, (b3) International conferences, (e5) Training organizations,

Keeping memory of TRIZ founder H.S. Altshuller, providing TRIZ specialists with informational support, publishing activity, TRIZ training, TRIZ researchers' training, TRIZ specialists attestation and certification, organization of conferences, holding international TRIZ contests for schoolchildren and students, examining TRIZ methods and other materials, etc.

Dr. Mark G. Barkan mbarkan@matriz.org Michael Orloff, 17 July, 2019 (Approved by the site owner)

TN2F-02 © The Altshuller Institute for TRIZ Studies <https://www.aitriz.org/> Location: USA Language: en

Roles: (b1) Dedicated association, (b3) International conferences Site search 1,110 pages

TN2A-03 © ETRIA (The European TRIZ Association) <https://etria.eu/portal/> Location: EU Language: en

Roles: (b1) Dedicated association, (b3) International conferences Site search 76 pages

RUL-36 © TRIZ Summit / TDS <http://triz-summit.ru/> (Russian), <https://triz-summit.ru/en/> (English) Ru Ru, En

Roles: (b1) Dedicated associations, (b3) International conferences, (e1) Method developers

The TRIZ developers summit is an international public organization founded by TRIZ researchers and experts from different countries in 2005 in St. Petersburg. The summit continues the traditions of the Public laboratory of methods of invention (OLMI, Baku, 1970-ies)

Mikhail Rubin, mik-rubin@yandex.ru mik-rubin@gmail.com Michael Orloff, 9 Sept., 2019 (Approved)

by the site owner)

MY-01 © MyTRIZ (Malaysia TRIZ Innovation Association) Official Website <http://mytriz.com.my/> Malaysia en
Roles: (b1) Dedicated associations, (b4) Domestic conferences, (e5) Training organizations

Main public sites for communication, announcement and sharing knowledge of TRIZ in Malaysia and South East Asia.

Contact: Tan Eng Hoo

Site Description Form WTSP (World TRIZ Sites Project) (Version: 2020/5/28 TN)
Team: MY (Malaysia) Site Code: MY-01 Writer: Eng Hoo Tan Date: June 4 2020

Item	Description	(Instructions)
Site Name **	MyTRIZ (Malaysia TRIZ Innovation Association) Official Website	
Site domain URL **	www.mytriz.com.my	
Site Location **	D-Asia; my-Malaysia	Refer the codes
Site Language **	en-English	Refer the codes
Roles of Site **	(b1) Dedicated associations, (b4) Domestic conferences, (e5) Training organizations, (a1) Dedicated for information sending, (f2) Publishers	Refer the codes
Evaluation **	© Most important	Refer the codes Use ©○□△— marks
Single-line Description *	HP of non-profit organization for proliferating TRIZ in Malaysia and S.E. Asian countries.	
Application phase *	(a) General preparation phase, (b) Problem finding and analysis phase, (c) Solution generation phase	Refer the codes
Application Fields *	General/universal	Refer the codes
Methods *	(m) Classical TRIZ, (n) Modernized TRIZ methods	Refer the codes
Description of Introduction *	This website is the official homepage of the Malaysia TRIZ Innovation Association (MyTRIZ). It carries content related to MyTRIZ activities such as key events marketing, TRIZ training and development calendar, important guideline announcement, annual reporting, success stories, etc. The non-profit organization exists for the benefit of those who know the TRIZ methodology, want to learn TRIZ, and wish to apply TRIZ for the benefit of all mankind especially Malaysia and South East Asia countries.	Free format, in 5-10 lines
Further Detailed Information	See the close Site Introduction SiteIntro-MY-01-MyTRIZ.html (Jun. 4, 2020)	Optional
Note of description		Remarks for further revision

Note: Adjust/expand the cell spaces as you need.

Refer the codes in "Multi sets of Indexing Schemes for the WTSP DB System" (2020/5/28 TN).

** Mandatory, * Desirable

(c) Public organizations

CN-01 © National Engineering Research Center for Technological Innovation Method and tool

<http://triz.hebut.edu.cn/> Location: China P.R. Language: cn

Roles: (c2) National organizations, (d1) Universities, (e1) Method developers, (d4) Consultants, (d5) Training organizations, (g3) Knowledge sharing,

Research, training and consultation on TRIZ Runhua Tan 2019/6/21

Key persons: Runhua Tan, Guozhong Cao, Bojun Yang, Huangao Zhang, Jianguang Sun, Jianhui Zhang
contact: rhtan@hebut.edu.cn

Site Description Form WTSP (World TRIZ Sites Project) (Version: 2019/6/13 TN)
Team: CN (D-cn-china) Site Code: CN-01 Writer: Runhua Tan Date: 2019/6/21

Item	Description	(Instructions)
Site Name **	National Engineering Research Center for Technological Innovation Method and tool	
Site domain URL **	http://triz.hebut.edu.cn/	
Site Location **	D-cn-China	Refer the codes
Site Language **	Cn-Chinese	Refer the codes
Roles of Site **	(c2) National organizations, (d1) Universities, (e1) Method developers, (d4) Consultants, (d5) Training organizations, (g3) Knowledge sharing,	Refer the codes
Evaluation **	©	Refer the codes Use ©○□△— marks
Single-line Description *	Promotion of TRIZ Study and Application	
Application phase *	(b3) Problem finding and analysis, (c1) Idea generation, (c2) Solution building, (c3) Solution evaluation and selection	Refer the codes
Application Fields *	(c1) Engineering in general, (c2) Mechanical engineering, (c3) Electrical/Electronic engineering, (c4) Communication and digital engineering,	Refer the codes
Methods *	(a4) Training methods, (b1) Gathering and analyzing Voice of customers, (b2) Quality Function Deployment (QFD), (b3) Analysis of products and processes, (b4) Voice of technology (Evolution of technologies), (c1) Statistical analysis of current situations, (c2) Cause-effect analysis of problem situations, (c3) Logical and critical thinking, (c4) Systematic thinking, (d1) Creativity training, (d2) Lateral thinking, (d3) Multi-aspect thinking, (d4) Breaking psychological inertia, (d5) Animation thinking, (e1) Functions and attributes, (e2) Functional analysis, (e3) Analysis of root causes, (e4) System representation, (e5) Physical mechanism of the system, (e6) Hierarchical structure of systems, (e7) Evolution of the system, (f1) Survey of technologies, (f2) Use of scientific and technical knowledge, (f3) Use of scientific references, (f4) Use of patent information, (f5) Use of knowledge of technology evolution, (g2) Use of contradiction analysis for guiding toward possibly effective idea generation principles, (h1) Design methods, (i1) Evaluation criteria, (i2) Comparison of solutions, (i3) Simulations, (i4) Testing, (i5) Quality engineering (Taguchi method), (j1) Pilot project, (j2) Process design, (j3) Mass	Refer the codes

	production, (k1) Patent analysis ,(k2) Patent application, (k3) Patent circumvention,	
Description of Introduction *	The center's research and promotion of TRIZ represents the highest level in China. The C-TRIZ proposed by the Center has great influence in China. From 2013 to 2018, the center trained 5035 innovative engineers, applied for 1218 patents, produced 62 new products, 206 new technologies and 135 new technologies, and produced 880 million yuan in economic benefits.	Free format, in 5-10 lines
Further Detailed Information		Optional
Note of description		Remarks for further revision

Note: Adjust/expand the cell spaces as you need.

Refer the codes in "Multi sets of Indexing Schemes for the WTSP DB System" (2019/5/18 TN).

** Mandatory, * Desirable

(d) Academia

(e) Developer organizations

TN2A-47 © Systematic Innovation Inc. (Darrell Mann) <http://www.systematic-innovation.com/> UK en

Roles: (e1) Method developers, (e4) Consultants, (a1) Dedicated for information sending, (f2) Publisher

Note (TN, Sept. 27, 2019): Darrell Mann has been working very actively for promoting TRIZ in the modernized form, naming 'Systematic Innovation' in a much wider sense. He authored "Hands-on" book series, including: Systematic Innovation (Technical), Systematic Innovation for Business & Management, Systematic (Software) Innovation, Matrix 2010, trenDNA, Innovation Capability Maturity Model, etc. One of the unique basis of his research has been the extensive analysis of patent DB in the world. The Web site posts a large number of articles reflecting his thoughts and activities as consultants and lecturers.

--- Written by Toru Nakagawa, Sept. 27, 2019

TN2A-48 © AULIVE (Simon Dewulf) <https://www.innovationlogic.com.au/> Australia en

Roles: (e1) Method developers, (a1) Dedicated for information sending, (g3) Knowledge sharing, (f2) Software/tool developers, (e5) Training organization

Note (TN, Sept. 27, 2019): Simon Dewulf, former owner of CREAM in Belgium, moved to Australia and started AULIVE Pty Ltd in 2012. The AULIVE site has 4 branch sites.

(A) Innovation Logic (<https://www.innovationlogic.com.au/>): Top page: AULIVE brings Innovation Logic, a collection of hands-on tools and a systematic method designed to demystify and systematize the space of creativity, innovation and value creation. With 20 years research and development in the domain of innovation, we have distilled the AULIVE method as 6 easy steps to innovate products or processes, with the inspiration tools. --- The steps are: Aim: value and function, Use: resources in time and space, Link: your product or process DNA, Import: inspiration from outside, Vary: change for better function, Elect: ideas to concepts.

(B) Patent Inspiration (<http://www.patentinspiration.com/>): This site provides with a useful tool for patent searches. In the free space, the operation of the software is fully demonstrated with a case in two videos. Surveying patents is possible at the text level freely but needs registration for visualizing them in various graphs.

(C) More Inspiration (<http://www.moreinspiration.com/>): This site is a large collection (currently 4961) of example of Innovations, each shown with a photo/vidoe and explanation. They have tags of industries and products. It is remarkable that the essence of innovation of each case is explained with the installed property and the resultant function. Such properties and functions are well categorized and symbolized (in addition to the text), thus many cases of the same property (or of the same function) are readily shown by clicking the symbol of property (or function). This site is very useful for obtaining inspiration from various cases.

(D) Production Inspiration (<http://www.productioninspiration.com/>): You can select a function you want to perform and select a state you want to operate on, then a number of ways (i.e., production methods) to achieve the function are shown with illustrations. E.g., 'Corrodes' 'Solid' gives you 19 production ways.

--- Written by Toru Nakagawa, Sept. 27, 2019

TN2F-07 © GEN-TRIZ <https://www.gen-triz.com/> Location: USA Language: en
Roles: (e1) Method developers, (e4) Consultants, (e8) Solution providers, (e7) Networking/matching

About: GEN TRIZ is a Technical Innovation Solutions Provider that delivers world-class product, process and packaging innovation services. For twenty years, our innovation specialists have been serving many of the largest and best-known consumer packaged goods, industrial products, and medical products companies in the world. We believe that to consistently deliver high impact results, breakthrough innovation can and must be practiced as a scientific discipline in itself. Our team is comprised primarily of scientists and engineers (over half hold PhD's) with expertise and experience in the innovation process. Our teams deliver breakthrough results by combining the power of GEN TRIZ's proprietary, systematic innovation methodology with the leverage gained from our private Global Knowledge Network (GKN) of over 8,000 scientific, engineering and subject matter experts. GEN TRIZ delivers a range of sustaining and breakthrough innovation services through dedicated project teams. In addition we offer training programs and facilitation to build internal innovation capabilities, as well as selectively develop and manage new technology ventures. GEN TRIZ has a technical innovation center and maintains laboratories to test and validate new product and process concepts.

Value statement: The Science to Power Innovation: It is our mission to deliver clients breakthrough innovation solutions that impact the bottom line. Leveraging GEN TRIZ's powerful combination of skills and experience, we are committed to delivering clients the following benefits: Increased Speed to Market; Lower Innovation Risk; Greater Return on Investment.

Methodology: At the heart of GEN TRIZ's innovation expertise lies a deliberate and rigorous methodology. For over 20 years, our innovation experts have continued to enhance and adapt the methodology to respond to the changing needs of the market. GEN TRIZ's methodology is a framework comprised of a collection of analytical and problem-solving tools. Key Principles: Understand main parameters of value; Consider technology evolution; Focus on functions; Address key problems; Adapt existing solutions, don't always invent.

GKN: If a problem requires external knowledge, we leverage our privately managed network to gain a deeper level of subject-matter expertise and insight. Guided by Function-Oriented Search, GEN TRIZ project teams leverage this network for consultation, theoretical advice, and/or support with physical experiments. And while our network provides invaluable contributions, the project teams themselves remain ultimately responsible for developing the solutions that meet the project's goals.

--- Written by Toru Nakagawa, Sept. 27, 2019

TN2F-04 © Ideation International, Inc. (Where Innovation Begins) <http://www.whereinnovationbegins.net/> Location: USA Language: en

Roles: (e4) Consultants, (e1) Method developers, (e2) Software/tool developers

About: Ideation International is a private, U.S.-based company founded in 1992 and headquartered in , Michigan. The company focuses on the Theory of Inventive Problem Solving (TRIZ). Ideation provides a structured methodology for resolving complex problems, marketed via educational programs, analytical services and a line of software, TRIZSoft, which together provide the resources necessary to control the innovation process. Ideation is fortified by a staff composed of the world's leading TRIZ scientists, who have advanced this scientific theory with powerful new applications and software tools to meet the needs of today's competitive marketplace.

(Four pillars of methods/software tools): IPS (Inventive Problem Solving): IPS helps solve complex technological problems by supporting both the analytical and solution-synthesis stages of problem solving.

APD (Anticipatory Failure Determination): AFD is a cost-effective method of analyzing and predicting failures in

products and processes. It guides users in documenting the situation, formulating the related problem(s), developing hypotheses, verifying potential failure scenarios, and finding solutions to prevent or eliminate the problem(s).

DE (Directed Evolution): DE drives Innovation and growth proactively instead of relying on reactive responses to traditional and uncertain technological forecasting. DE is a process for analyzing and evaluating a system from both technological and market standpoints, developing a comprehensive set of possible scenarios for future evolution, establishing a decisive course of action, securing intellectual capital and defining a plan to create next-generation products, processes, and technologies.

IP (Intellectual Property): IP validates and increases the value of your Intellectual Property. Our analysis will reveal opportunities for enhancing your IP's value and protecting it from infringement and circumvention.

--- Written by Toru Nakagawa, Sept. 27, 2019

TN2A-06 © ICG T&C (ICG Training & Consulting) <https://www.xtriz.com/> Location: Netherlands Language: en
Roles: (e4) Consultants, (a1) Dedicated for information sending, (e1) Method developers

About: Founded and centered in the Netherlands in 2003 by TRIZ Master Valeri Souchkov, ICG T&C is a company operating with an international network united by the common goals and mission: to develop and bring to the market the best methods, tools, and solutions which boost, leverage, and manage creativity and innovation. Among our customers are both large and small organizations which are willing to not just observe but to create future. Prior to founding ICG T&C, Valeri Souchkov co-founded Invention Machine Labs in 1989 which pioneered promotion of TRIZ and Systematic Innovation in Western Europe, USA, and Asia. ... In 2000 Valeri Souchkov initiated and co-founded the European TRIZ Association (ETRIA).

Top page: Our mission is to empower the world with [TRIZ-based Systematic Innovation](#) which brings a process of producing breakthrough innovative solutions to a radically new level and helps our customers to transform a fuzzy innovation front-end to a predictable, manageable and highly productive process.

Why TRIZ and Systematic Innovation?: ... Methods and tools of TRIZ and Systematic Innovation organize and support a process from dealing with ill-defined initial situations towards producing and selecting new ideas with the highest value/costs ratio thus making dealing with an innovation "fuzzy front-end" manageable and predictable. ... Recently enriched with a number of new tools, such as Root Conflict Analysis, Function Analysis, Technology-Market Evolution Matrix, Value-Conflict Mapping, and Innovation Roadmap TRIZ makes it possible to establish a well-structured process of achieving continuous innovation and developing breakthrough ideas for new products, technologies and services in a systematic way. ... Today, innovation becomes a well-planned activity which integrates a wide range of methods, tools, as well as organizational culture, management support, and other crucial ingredients. Such a system becomes available to everyone involved to innovation processes thus immensely increasing the innovative productivity of organizations and individuals.

Note (TN, Sept. 27, 2019): This site has a well-organized top page, not only showing their own training and consulting activities but also introductions, papers, and overviews of TRIZ and Systematic innovation in a wider scope.

--- Written by Toru Nakagawa, Sept. 27, 2019

RUL-12 © Institute of Innovative Design <http://triz-guide.com> (English), <http://rus.triz-guide.com/> (Russian) Location: Ru
Language: En, Ru
Roles: (e5) Training organizations, (h3) Educational organizations, (e1) Method developers

Distance learning of classical TRIZ under the guidance of Dr. Salamatov with the performance of graduation project at the level of the invention, certification in accordance with international requirements for 1, 2 and 3 level.

Yuri Salamatov info@triz-guide.com Michael Orloff, 17 July, 2019 (Approved by the site owner)

RUL-07 © Global Russian Academy of Modern TRIZ by Prof. Michael Orloff <https://www.gramtriz.com> Location: De
Language: Ru
Roles: (e5) Training organizations, (e1) Method developers, (h3) Educational organizations

Presentation of educational methodology and models of Modern TRIZ for mastering the basics of TRIZ, training and certification of specialists, students, teachers and schoolchildren
 Michael Orloff michael.orloff@mtriz.com Michael Orloff, 17 July, 2019 (Approved by the site owner)


(f) Publishing organizations





(g) Information sharing




















TN2A-12 o Wikipedia <https://en.wikipedia.org/wiki/> Location: USA Language: en, many
 Roles: (g3) Knowledge sharing

(h) User organizations

(i) Personal

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(B1) WTSP News 2017 	(B2) WTSP News 2018 	(B3) WTSP News 2019 	(B4) WTSP News 2020 		WTSP Appeal (Jun. 2018) 	WTSP Paper (1) ETRIA TFC2018 	WTSP Paper (2) ETRIA TFC2019 	Summary slides (TFC 2019) 		Japanese page of WTSP Index page 

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