

Dear TRIZ Colleagues,

**"TRIZ Home Page in Japan"** has been updated yesterday:

Both English and Japanese Pages (Dated: Jan. 13, 2006)

<http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/>

**'Personal Report'** of the ETRIA TFC 2005 (Held at Graz,

Nov. 2005) has been posted in detail in English.

(about 40 A4 pages, with a lot of full-color figures  
by courtesy of authors.)

For these three months, the Japanese pages of this Web site  
have been updated four times, for uploading a large number  
of papers and introductory articles mostly written by myself.  
Brief descriptions of them in English are also uploaded  
in the English pages.

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In English pages:

[1] Forum: Conference Report:

"Personal Report of the 5th ETRIA Conference 'TRIZ Future 2005'  
(Held on Nov. 16-18, 2005, at Graz, Austria)"

Toru Nakagawa (Osaka Gakuin Univ.), Dec. 29, 2005

This Conference was held with much success with 130 Participants.  
I wish to thank all the efforts of the organizers of this  
Conference, especially Mr. Juergen Jantschgi of University  
of Leoben.

My intention to write this 'Personal Report' is mainly to review  
all the presentations and publicize the current state of the art  
in TRIZ for better understanding and wider penetration of TRIZ.  
Please note that the report reflects my personal standpoints  
however faithfully I am trying to understand each presentation.

All the presentations are reviewed and described in the following  
categories:

- (A) Keynote Speeches and Related Works
- (B) Promotion of TRIZ
- (C) TRIZ Methods for Problem Solving
- (D) Case Studies of TRIZ for Problem Solving
- (E) TRIZ Methods for Strategic Development of New Products

- and Technology Prediction  
(F) Extension of TRIZ Application Fields in Technologies  
(G) Integration of TRIZ with Relevant Methods  
(H) TRIZ and Patents and Knowledge Management  
(I) TRIZ and Education  
(J) Poster Presentations and No-Presentation Papers

K. Uhrner examined 164 inventions of his company for these 30 years, and demonstrated clearly the effects of TRIZ on them in numbers, quality, and personal inventive capability.

Several papers discuss how to use TRIZ strategically for developing new products; it seems to be a general consensus that TRIZ and some other methods/tools should be used in an integrated manner in some general framework of the whole R&D/business project management.

Usage of TRIZ in various problems and situations has also been shown.

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In Japanese pages:

The following articles have been uploaded in Japanese on Oct. 26, Nov. 30, Dec. 21 (last year), and Jan. 13, 2006.

Brief descriptions and links to the Japanese pages are made in the English pages.

[2] Forum: Proposal:

"Study of Patents with TRIZ and Study of TRIZ with Patents':  
A Proposal and Introduction to the Collaborative Study  
Project at MRI's Knowledge Creation Study Group"

Toru Nakagawa (Osaka Gakuin Univ.), Sept. 11, 2005  
(Posted on Oct. 26, 2005) (Slides: Dec. 21, 2005)

This is an introduction to my proposal of the Collaborative Study Project among the TRIZ users in the Users' Study Group organized by MRI. This proposed to study selected patents closely with TRIZ viewpoints, and thus simultaneously to study the usage of TRIZ with these patents.

A collection of 6 short documents on the proposal, ways of study/analysis, and ways of documentation.

Slides presented at IM Users Symposium (2005 Lake Biwa) held by MRI on Dec. 2, 2005 are posted as well in PDF (Dec. 21, 2005).

[3] Research Note :

"Study of Patents with TRIZ: 'Production of Auxetic Fibers: Artificial Fibers which become broader if extended' (US Patent 6,878, 320) " (Oct. 26, 2005) (Slides: Dec. 21, 2005)

Toru Nakagawa (Osaka Gakuin Univ.), Jul. 6, 2005 (Insertion on Sept. 12, 2005)  
(Posted on Oct. 26, 2005) (Slides: Dec. 21, 2005)

Written as a sample of description for the Collaborative Study of Patents with TRIZ.

'Auxenticity' represents a peculiar property as expressed in the title (having a negative Poisson ratio). While bulk-form auxentic materials were known, this US patent by Kim Alderson et al. has produced auxentic fibers for the first time.

With a trigger of introduction by Darrell Mann, I have studied the patent and analyzed it with TRIZ.

Slides presented at IM Users Symposium (2005 Lake Biwa) on Dec. 2, 2005 are posted as well in PDF (Dec. 21, 2005).

[4] Introductory/Series :

"TRIZ Up-to-Date (Part 6, Final) Practice of Simplified TRIZ by Use of USIT"

Toru Nakagawa (Osaka Gakuin Univ.),  
"Nikkei Monozukuri" (Nikkei BP), Aug. 2005, pp. 124-127.  
(Posted: Oct. 26, 2005)

Final Part of the series of introductory articles published in the monthly Journal, "Manufacturing" published by Nikkei BP. Practical use of USIT is explained, on the basis of the overall structure and procedure explained in the last issue. Practices of USIT training and usage of USIT along the process of problem solving are described.

[5] [Posted in the Official Page of Japan TRIZ CB.]  
Conference Documents: (Posted: Oct. 26, 2005)

"Opening Address"

Toshihiro Hayashi (President of Japan TRIZ CB, Hitachi),

Presented at the First TRIZ Symposium in Japan, on Sept. 1, 2005,  
at Laforet Shuzenji.

Slides of the Opening Address are posted in HTML.

"Abstracts of Proceedings of 'the First TRIZ Symposium in Japan'"

A set of one-page descriptions for all the presentations in the  
Proceedings is posted in PDF, containing the title, author(s),  
affiliation, abstracts, and extended abstracts.

[6] Paper translated into Japanese:

"Analysis and Development Aspects of Laser Optical Disk Systems"

by Serguei Khrouchtchev (Moscow State Technical Univ., Russia),  
Japanese translation by Kou Noguchi (NEC Electronics) and  
Toru Nakagawa (OGU), Oct. 26, 2005.  
(Posted: Oct. 26, 2005)

The paper was originally published in the Proceedings of  
ETRIA World Conference "TRIZ Future 2003" held at Aachen, Germany,  
on Nov. 12-14, 2003, and was posted in this site in English  
(Jun. 16, 2004).

Detailed analysis of the technological evolution in the optical  
systems of Compact Disks and DVDs. How various contradictions  
appeared and then solved is described from viewpoints of TRIZ  
principles. Giving technological background to the author's work  
on DVD cost reduction at Samsung (Korea).

[7] Paper:

"Problem Solving Methodology for Innovation: TRIZ/USIT.  
Its Philosophy, Methods, Knowledge Bases, and Software Tools"

by Toru Nakagawa (Osaka Gakuin Univ.),  
Published in "the Journal of Japan Creativity Society",  
Vol. 8 (2004), pp. 49-66.  
(Posted: Nov. 30, 2005)

This paper was first presented at First Symposium on Knowledge  
Creation Support Systems, held on Feb. 27-28, 2004, at JAIST  
(Advanced Institute of Science and Technology, Hokuriku)  
near Kanazawa; and was posted in this site in Japanese  
(Mar. 3, 2004) and in English translation (Aug. 26, 2004).

The paper has been published in the Journal with minor revisions.

This paper was given the 'Journal Paper Award of Vol. 8' by the Japan Creativity Society on Oct. 29, 2005.

This paper introduces the whole aspects of TRIZ in a top-down manner on the basis of up-to-date understanding of the methodology. Explains TRIZ/USIT and its usage in the "Steady Strategy" of introduction. Posted in PDF.

[8] Paper:

"A New Paradigm for Creative Problem Solving:  
Six-Box Scheme in USIT without Depending on Analogical Thinking"

Toru Nakagawa (Osaka Gakuin Univ.),  
Presented at the 27th Annual Conference of Japan Creativity Society, Held on Oct. 29-30, 2005, at National Center of Sciences, Tokyo.  
(Posted: Nov. 30, 2005)

This is an extension of my TRIZCON2005 paper (posted in English). For creative problem solving, the Four-Box Scheme where the problem is solved at an abstract level has been accepted widely as the basic scheme. The contents of the scheme, however, are not clearly described in general terms, and the analogical thinking depending on the searched hints is at the core of the scheme.

The author has represented the overall process of USIT in the dataflow diagram, and has obtained a new 'Six-Box Scheme'. After examining the significance of this scheme, the author has concluded that the scheme provides a new paradigm for creative problem solving without depending on analogical thinking.

A concise paper of 6 pages. Posted both in HTML and in PDF format. Slides for presentation are also posted in PDF.

[9] Forum: Conference Report:

"Personal Report of the 5th ETRIA Conference 'TRIZ Future 2005'"

Toru Nakagawa (Osaka Gakuin Univ.), Dec. 30, 2005  
(Posted: Jan. 13, 2006)

Summary of [1] written in Japanese in about 2 pages.

[10] Introductory/Series :

"TRIZ: Creative Problem Solving Methodology for Innovation"

Toru Nakagawa (Osaka Gakuin Univ.),  
"InterLab" (Optronics Ltd.), Series starting in Jan. 2006.  
(Posted: Jan. 13, 2006)

Start of a long-run series for introduction to TRIZ.  
"InterLab" is a commercial monthly journal with the aim of  
promoting/supporting the collaborations among academia, public  
institutions, and industries, having about 12,000 subscriptions.

[11] Introduction:  
"What is TRIZ? FAQ"

Toru Nakagawa (Osaka Gakuin Univ.),  
"InterLab", Jan. 2006, pp. 48-51, (published on Dec. 15, 2005)  
(Part 1 of "TRIZ: Creative Problem Solving Methodology for  
Innovation" [10])  
(Posted: Jan. 13, 2006)

Introduction to TRIZ for novices.  
What is TRIZ?, Information sources and textbooks,  
Basic approach, Thinking way for innovation,  
Penetration situations, Penetration in Japan,  
New generation of TRIZ.

Both in HTML and in PDF.

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I wish all of you a happy and successful New Year 2006,  
and wish to keep and extend collaborative relationships.

Best wishes,

Toru Nakagawa

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"TRIZ Home Page in Japan"  
<http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/>  
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Ellen Domb wrote:

> Hello, Toru:  
> Of course we will fix what is broken, but what is in the TRIZ Journal is  
> what I have. Please send a better version directly to Kevin so he can make  
> the correction.  
> Thanks  
> Ellen

>  
> Ellen Domb, Ph.D., PQR Group  
> 190 N. Mountain Ave., Upland, CA 91786 USA  
> +1(909) 949-0857 FAX +1(909) 949-2968  
> ellendomb@trizpqrgroup.com  
> <http://www.trizpqrgroup.com>  
> or  
> editor@triz-journal.com  
> <http://www.triz-journal.com>

>>-----Original Message-----

>>From: Toru Nakagawa [mailto:nakagawa@utc.osaka-gu.ac.jp]  
>>Sent: Thursday, February 09, 2006 4:41 AM  
>>To: Ellen Domb; ellendomb@trizpqrgroup.com; webmaster@triz-journal.com  
>>Cc: nakagawa@utc.osaka-gu.ac.jp  
>>Subject: Re: Home Page announcement (TRIZ HP Japan)

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>>Dear Ellen and Kevin,

>>

>>Thank you very much for your posting my announcement of  
>> "TRIZ Home Page in Japan, Updated" in your February issue.

>>

>>But the PDF file seems to be broken at the end of the  
>> second page. Could you please fix it?

>>

>>Sorry for bothering you and thanking for your kind  
>> cooperation,

>>

>>Best wishes,

>>

>>Toru Nakagawa

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>>Ellen Domb wrote:

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>>>Hello, Toru:

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>>>I will put your announcement in the TRIZ Journal for February. You  
>>>have a very large amount of work, with several sets of new papers. I'm  
>>>sure your readers will be grateful.

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>>>Please note: I have a new personal e-mail address and a new web page.  
>>>(See below) Please change my address in your records, so that I don't  
>>>miss any of your e-mail. Of course, anything for the TRIZ Journal at  
>>>editor@triz-journal.com <mailto:editor@triz-journal.com> will  
>>>continue to go to both Michael and me.

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>>>Best wishes for a happy, healthy and creative New Year!

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>>>Ellen

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