

# Radical Enumerative Thinking and Contradiction as the Way of Life

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## 1. Preface

In this paper, I deal with the logic for life. To live is to have world view, attitude, logic of method and to recognize and act for realizing value. [FIT2016] [CGK2016]

The logic of intellectual life is found out to be Radical Enumerative Thinking and Contradiction which I have been studying for a few years shown at chap. 2. [FIT2006, 13, 16, 17]

Already written contents in past studies or quoted one are shown by blue letters. *Italic letters show examples.*

## 2. Logic of Intellectual Life

**2.1 Contradiction** [FIT2006,13,16,17] [TS2006, 10,11,12] [THPJ2012, 15/1,2]

Things are all mutually related. So, we should build a concept of “something” with mutual relation. “Something” is Contradiction. It is simply the structure of element of movement or relation as “term 1 – relation – term 2”. Contradiction is divided into several types. (Table 2.1)

**Table 2.1 Types of Contradiction (Structure of Element of Movement)** [FIT2006, 13, 16, 17] [TS2006, 10, 11, 12] [THPJ2012, 15/1, 2]

Contradiction	Types of Result	Explanation
<b>1. Contradiction of Resolving Differences</b>	11. Cause quantitative changes	Usual quantitative changes in nature, artificial system and action <i>e.g.: mantle movement</i>
	12. Value cause qualitative changes	Usual quantitative changes cause qualitative changes in nature, artificial system and action. <i>e.g.: earthquake by mantle movement</i>
<b>2. Usual CC; Compatible Contradiction</b>	21. Realize two terms compatibly	Realize two terms compatibly in nature, artificial system and action. <i>e.g.: high power and light weight of engine, usual “function and structure”</i>
	22. Attributes of integrated two terms cause qualitative changes	Integrated two terms cause dialectic denial. <i>e.g.: every industrial products except that of hunting and gathering</i>
<b>2. Specialized CC; Contradiction of Unity</b>	23. Continue to change both terms	If each term had the other term as condition of its own movement or sub-element of itself each other two terms would continue to <b>change better or worse</b> each other. <i>e.g.: Contradiction and RET</i>

## 2.2 Radical Enumerative Thinking [FIT2012] [THPJ 2015/1, 2]

I have been tried to rebuild thoughts of Radical Enumerative Thinking on everything by the minimum basic concepts on the zero basis. (Table 2.2) [FIT2013,15] [THPJ2015/1,2,3]

RET is a base of abduction, thought and argument. We need granularity to obtain the object under the condition that we have a limited ability. The increase of information makes us conscious about granularity.

**Table 2.2 Radical Enumerative Thinking** [TS2012] [FIT2012-15] [THPJ2015/1]

<b>Radical Enumerative Thinking</b> is the radical logic to continue to think and review granularity [FIT2005/02] and enumeration of objects to grasp the whole by the three basic concepts. Objects are of complex and changing in front of us.	
<b>Granularity</b> is a range or scope in time and/or space and/or attributes.	We have a limited ability to recognize. So, we need granularity. Attributes are contents of object with specific description.
<b>To enumerate</b> is to numerate up to a whole without leakage.	Enumeration is physical or logical <i>e.g.: kind</i> . [TS2012] [FIT2014] Adequate granularity should be selected from enumerated one and enumeration could be done at some granularity. Without enumeration of granularity we might miss the adequate granularity and adequate logic.
<b>Object</b> is information cut from facts by perception at a granularity.	Object consists of being, which is matter and idea, and relation. [FIT2004, 05/1, 2] [TS2005, 07,08] <b>Logic</b> is relation between objects decided by a granularity.

## 3. Principles of RET [THPJ2015/1 revised]

We have some basic principles for RET.

### 1) To know the complexity of granularity itself

We have object with various granularities. But it is difficult to be conscious of the meaning of granularity.

### 2) On the complexity of real facts in space and time

It is difficult to understand the relation between each facts and relation between each value and fact realizing it. Facts, value and those in human recognition are changing at various time granularity. So, we need RET now.

### 3) On the constraint of attributes of human

Constraints of attributes of physical body and fixed notion

of human decide granularity. It is difficult to be relative to these. We need RET for radical review of facts and value sometimes.

### 4) On the explicit granularity

We need adequate granularity to obtain adequate logic. But almost all expression in the world do not show explicit granularity. There is vague granularity and logic in the world.

But deciding granularity is the essence of thought. So, we should explicitly show how to specify the granularity of objects and values among enumerated objects and value. We should show the logic how to realize value from the specified objects. And we should also show the position of the theme among the whole.

And we should not change granularity in a series of sentences in paper or arguments. [THPJ2015/1 revised]

#### 4. RET and Contradiction as the Way of Life

##### 1) Viewpoint of Structure of Contradiction

It is important to find new CU or CU from CC. *e.g.: Sense of unity and sense of object will be CU (shown later).*

##### 2) Viewpoint of RET for the Whole [FIT2016,17]

It is the time we need the attitudes to continue to get the more radical whole of more ultimate truth and value from the facts in front of us. Everything is to be reviewed and enhanced.

It is difficult to acquire now subjectively the recognition, participation and verification of resolving the differences objectively between the whole of ideal truth and value and those of real life of individual.

For this difficult issue, it is necessary to know the whole history, the real world of human and the position of us in them as a world view and how to behave for changing the world depending on the position of individual. [ISZK1046-701]

##### 3) Way of Life: World View, Attitude and Logic

To live is ideally to have way of life, recognize and act for realizing value. [FIT2016] [CGK2016] The way of life is world view, attitude and logic, which decide recognition and action for realizing value via inside subconscious and outside culture.

31) (**World View**) If no conscious use of energy and no technology made no increase of products and population in the history, we would need no culture.

And even if objective use of energy and technology made increase of products and population, if no diversified products were needed, we would stay local and in small independent groups and did not need transportation and culture.

If objective use of energy and technology made increase of diversified products and population, we would need transportation, culture, history and world view.

The essence of world view should be by simple granularity to come into subconscious.

*By rough time-granularity of the history of the earth we got a history consisting of the age of agricultural revolution (10000 or 8000 years ago– 4000 years ago), economic system began by barter and sense of possession (6000 years ago– 4000 years ago), compatible political system and religious system until capitalism age (4000 years ago– 250 years ago) and the age of capitalism (now).* [ISZK1046-701] [ISZK 925-687]

*For the increase of population in the history religious belonging system was required to bear incomplete sense of unity. And for the increase of products capitalism was to bear both incomplete sense of object and incomplete sense of unity.*

*We got need to unify a sense of object and a sense of unity resolving the insufficiency of unilateral sense of unity as a summary of history. It was shown in [FIT2013,16,17].* A sense of unity is a will to integrate me and object including another person to re-unite to enhance me and object including other life as an attitude of action to realize “love”. A sense of object is my will to operate object as an object to realize “liberty” which is an ability to change. [TS2011] [FIT2013]

32) (**Attitude**) I enumerate utmost ideal elements to be “modesty and criticism” from a granularity of attitude and “love and liberty” from a granularity of attitude and action. [TS2011] [FIT2013] [FIT2015/01.03] These utmost ideal elements are integrated as sense of unity and sense of object to become two terms of an important CU. [TS2011] [FIT2016, 17] [NKGW2016].

Culture, such as institution and technology, should be also means for sense of unity or sense of object respectively. [FIT2016]

33) (**Logic**) The logic is RET and Contradiction which decide the world view, the attitude and culture.

#### 5. Conclusive Thought and Issues to be Resolved

As a base of abduction, thought, argument and democracy, RET and Contradiction should be a formal logic of intellectual life which include abstraction etc. to become a part of AI.

*Resolving the insufficiency of unilateral sense of unity makes it easy to unify a sense of object and a sense of unity.*

*We have two elements needed to enhance from unilateral unity. One is a sense of possession which draw object to subject and the other is an incorrect sense of belonging which draw subject to something absolute respectively.*

*Logically it is simple and easy to enhance from unilateral relation to bilateral. It may seem to be difficult to resolve differences, as possession used to be an issue of law etc. [ISZK1046-701], we should change even common notion if necessary. And it is necessary to go into the age of post-capitalism.*

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#### References

Link to the papers by TAKAHARA in 2003–2015 are in the following home page “TRIZ Home Page in Japan” by NAKAGAWA Toru.

<http://www.ogjc.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/epaper/s/e2016Papers/eTakahara-2016/eTakahara-FIT2016-161007.html>

<http://www.ogjc.osaka-gu.ac.jp/php/nakagawa/TRIZ/jpapers/2016Papers/Takahara2016/Takahara-FIT2016-161005.html>

Shorten name of references means as follows.

TJ: The TRIZ Journal. FIT: Forum on Information Technology held by Information Processing Society of Japan and the Institute of Electronics, Information and Communication Engineers in Japan. IEICE: General Conference of Institute of Electronics, Information and Communication Engineers of Japan. IPSJ: National Convention of Information Processing Society of Japan. CGK: The Conference of Chugoku-branch Joint Convention of Institutes of Electrical and Information Engineers. TS: TRIZ Symposium in Japan. THPJ: TRIZ Home Page in Japan by NAKAGAWA Toru.

[NKGW2016] NAKAGAWA, “TRIZ/CrePS Approach to the Social Problems of Poverty: Underlying the Arguments by Ordinary People, ‘Liberty vs. Love’ Is Found the Principal Contradiction of the Human Culture”, TS2016, Sept. 2016.

[IEICE2016] TAKAHARA, “The Dialectic Logic on the Earth”, IEICE2016, A-12-1, Mar. 2016. In Japanese.

[FIT2016] TAKAHARA, “Radical Enumerative Thinking and Contradiction of Unity for World View, the Way of Life and the Future of Human Being”, FIT2016, Sept. 2016.

[CGK2016] TAKAHARA, “A Note on Energy and Post-Capitalism”, CGK2016. R16-07-17, Sept. 2016.

[IPSJ2017] TAKAHARA, “A Method of Solving Big Issue”, IPSJ2017, 7F-02, Mar. 2017. In Japanese.

[ISZK1046-701] TAKAHARA, <http://maganetoru.blog.fc2.com/blog-entry-1046.html#comment701>, Aug. 2017. In Japanese. [ISZK925-687] TAKAHARA,

<http://maganetoru.blog.fc2.com/blog-entry-925.html#comment687>, Jul. 2017. In Japanese.

[FIT2017] TAKAHARA, “Logic and World View of Intellectual Life to Survive”, FIT2017, O-018, Sept. 2017.

[TKHR] [http://www.geocities.jp/takahara\\_t\\_jeice/](http://www.geocities.jp/takahara_t_jeice/) In Japanese.