



## Research Paper

---

# Complex Plane Transformation from Risk Aversion Type to Risk Lover Type on no Data Problem by Bays Fuzzy Decision Rule.

Accepted 14<sup>th</sup> September, 2018

### ABSTRACT

Studies have formalized decision-making methods in fuzzy events and probabilistic differential equations in fuzzy events and solved them to derive a Markov decision process in fuzzy events in a no data problem. This is Bays-Fuzzy Decision Rule which is developed by the Shinto's concept of evil, as a unique technique in Japan with the soul of KIDO (in Japanese) based on the beliefs of nature God and having the heart of esoteric religion. For example, considering the mapping of the invisible world like a bill or a tile to a visible world, a mythical world composed of demon families (Prince Shotoku clan and Soga clan). It is a peculiar fuzzy theoretic subjective Bayes theory unique to Japan, constructed and positioned as a modern society of the Markov decision-making world map. In this study, we will briefly describe the background of constructing Complex Fuzzy Decision Theory.

Houju Hori Jr.

Chief in Nara Community, Tsubakikishi Shrine Japan.

\*Corresponding author. E-mail: uemura uemura0742@yahoo.co.jp.

**Key words:** Complex fuzzy decision theory, Bayes theory, Japan.

---

### INTRODUCTION

Japan's Complex Fuzzy Decision Theory different from Zadeh's 's fuzzy sets theory is being built by Hori (2014) based on the research thought of KIDO (Japanese original Shinto within nature before appearing our Emperor in Japan) represented by the Buddha teacher without a signal. He focused on the demon which is a peculiar religion in Japan and expresses the concept of the Shinto's evil as a mathematical model. The field to be handled is a complex field of fuzzy theory, the applied probability theory and applied statistics, in particular, cover the no data problem within or without big data. The no data problem is a problem with no likelihood regardless of the presence or absence of data, and it is a decision-making problem consisting solely of decision makers' subjectivity (Hori, 2018). The Complex Fuzzy Decision Theory that Hori built is also called analog image technology. At present, large data processing is being put to practical use, but the question is how far invisible world can be represented (Hori and Matsumoto, 2017). Also, objective AI technology is suitable for building electronic manuals

based on empirical rules. We cannot deal with unexpected conditions (events) at all. When these adaptation limits for modern society become clearer, our subjective AI technology based on Complex Fuzzy Decision Theory will be necessary. It should be noted that Akaike Bayes will use the same data twice, in particular.

### Conception of salvation in KIDO

An example of Hiei purification that was stained with rough blood was reported. Recently, the revival of the Prince Shotoku clan has also been done by deifying Japanese dragon God and Japanese Buddhist God living in Mt. Ikoma, Nara City, Japan. Decisions based on these KIDO are treated as schizophrenic patients in the invisible world, but they believed only in the visible world, they are treated as schizophrenic patients (Hori, 2017). In particular, for the past several years of working at Nishihonganji Temple and working with a legal name, the

legal name has been acknowledged by scholarly journals and books. This aim is to allow the country to recognize the legal name, that is, to recognize "the other world". Here, our technique is based on the complex plane transformation (inverse transformation) formula that recognizes the existence of the soul.

### **Outline of complex fuzzy decision rule**

This blurred event is thought to be the world that the eye can see. In addition, the illusion state seems to be caused by the subjective change of the decision maker like the real image and the virtual image of the convex lens and the concave lens, and it is mathematically modeled by the Markovian transition of the blurred event. Here, this illusion state identification method is a Markov decision process in a fuzzy event (An example of a complex plane transform filter) (Uemura, 1991, 2013; Hori, 2014). Academically, it states the position in subjective Bayes theory, extension of Wald's decision function and the difference between Zadeh's Type 2 fuzzy theory, and so on. For details, please search on PC or mobile at "Yoshiki Uemura", and "Houju Hori Jr."

### **Natural worship system esoteric fuzzy theory**

The Lingfeng Ikoma mountain belief, Ikoma mountain festival and Ikoma mountain dragon faith are mainstream. The main god of the Ikoma mountain saintly faith is the secret Buddha (joyous buddha) coming from India. If this secret Buddha is deified to a deity, it is the master and the princess of the large lord of the Miwa mountain crown, and in the case of Buddha it is a true belief in religion of Prince Shotoku and wife of Ikaruga no Sato. Also, Jizo Bodhisattva faith is deeply rooted, and Shingon Buddhism mountain temple has Magdalen. This Jizo Bodhisattva faith is Sosaka incense of Asuka no Sato and faith to her wife. In other words, simply, it is thought that this world, the other world and the world after death are controlled by the emperor, but since the Ikoma mountain priest faith is mainly aimed at world peace and ancestor retirement, natural person himself, from the viewpoint that the mountain is a god (emperor), there is no exaggeration to say that it is a mysterious Bayesian thought.

Complex Fuzzy Decision Theory performs formulation of stochastic differential equations and derivation of solutions in decision-making problems after derivation and transformation of complex plane (inverse transformation) formulas, in particular (Uemura, 1991, 2013). We showed that our Complex Fuzzy Decision Theory can be applied. In the no data problem, suicide bombings and special attack units in pre-war Japan are examples, there are still worlds that recognize suicide bombing in the no data area, so for example, our complex

decision-making method can be applied. It is possible to develop a subjective AI part of a decisive unmanned human torpedo celestial of an example of a shogi's fly (Dragon King).

We consider that the other world is a world mapped and transformed from this world (complex plane) by transferring the state of nature to the fuzzy events, and its decision making method is a Markov decision process which solved probabilistic differential equations in the no data problem. As a series of applications, we have devised an illusion state identification method in the no data problem.

Complex Fuzzy Decision Theory can be applied to the high risk-high return problem in which the decision maker is the risk lover type, using the max-product method. Finally, the future task is to derive a two-dimensional complex plane transformation (inverse transformation) formula that also considers the spiritual world in Shingon Esoteric Buddhism. This decision rule is based on "Type 2 Bays-Fuzzy Decision Theory with the reserved judgment into the indifferent zone", where my paper will soon appear, because the formula had already been obtained in that decision rule from my speech paper in IIZUKA-90. This study/ research concept and strong belief are that formulating Complex Fuzzy Decision Theory based on Bays-Fuzzy Decision Rule in no Data Problem can cover Japanese original decision making based on KIDO, which had been applied to the last war as Japanese researching airplane with no reader computer for the attacking ship on the sea. Therefore, this problem is under no date problem with/without big data. At some day, this Japanese original decision making should be formulated based on KIDO as this Japanese researching airplane.

### **REFERENCES**

- Yoshiki U (1991). Decision Making Method in Fuzzy Event, J. Japan Fuzzy Society.
- Yoshiki U (2013). Fuzzy Decision Making and Fuzzy Statistics, Owl Publishing.
- Houju Hori Jr (2014). Application of Fuzzy / Bayes Decision-Making Rule to KIDO, Institute of Automation and Control Engineering Intelligent Systems Symposium Lecture.
- Houju Hori Jr (2017). 35 years of psychiatric care and future tasks - From socialist ward to objective AI ward -, lecture of Biomedical Fuzzy Systems Society.
- Houjui Hori Jr, Yukio M (2017). Information Processing Society AI Technology Forum (Nico Nico Douga).
- Houju Hori Jr (2018). statistical processing based on incorrect data, Dictionary of statistical science, Maruzen (Translation).