

Title	等価変換理論を応用した創造的問題解決支援システムに関する研究
Author(s)	藤川, 善規
Citation	
Issue Date	2002-03
Type	Thesis or Dissertation
Text version	author
URL	http://hdl.handle.net/10119/376
Rights	
Description	Supervisor: 國藤 進, 知識科学研究科, 修士

Study on creative problem solving support system based on ET-thinking.

FUJIKAWA Yoshinori

School of Knowledge Science,
Japan Advanced Institute of Science and Technology
March 2002

Keywords: Creative problem solving support system, Creativity support system, Patent retrieval system, Inspiration support system, ET-thinking.

In this thesis, we propose a creative problem solving support system based on ET-thinking. ET-thinking is methodology to find c-epsilon equal relation from set of many cases. ET-thinking is developed by Dr.Kikuya ICHIKAWA. In ET-thinking methodology world, the symbol “epsilon” does mean purpose-function, the symbol “c “ does mean constraint to do “epsilon”. And, in this methodology research, c-epsilon lexicon method was born. C-epsilon library method is a method to make a library based on c-epsilon equal relation. C-epsilon library method makes a tree of the symbol “epsilon”. And some “epsilon” makes a tree of the symbol “C”.

Now, There's patent retrieval system, the name IPDL(Intellectual Patent Digital Library). It is produced by Japan patent office. This system has many quantum patent DB since 1997. But, in the view of information retrieval system research, IPDL is using very cheap mechanism to find patent search result for user's request. It's very normally, not very technical. But this system is most feasible and useful patent retrieval system in Japan.

Then I think, Let's make a c-epsilon lexicon method based patent library. And patent retrieval system with thesaurus. The retrieval result of patent retrieval system with thesaurus, is not useful, because there are too many search candidates.

If we set some weight, or rank to patent retrieval result with thesaurus by cepsilon library, It will make good performance for user's searching needs. Then I have tried it.

And I embed my patent retrieval system experiment environment, to KJ-method

based inspiration support system environment. If people use this system, number of inspirations of people will increase.

My two challenge is completed. And I evaluated my system, some comparing, and enquete evaluation.

I could make a good effect. If you have some interests of patent retrieval research, my thesis will be goodness for you.