Table based KNN for Index Optimization

Taeho Jo

Department of Computer and Information Engineering, Inha University, 100 Inharo Namgu, Incheon, South Korea

tjo018@inha.ac.kr

***Abstract*—We concern this research with the table based KNN as the approach to the index optimization task. It may be interpreted into an instance of word classification, and the encoding scheme where words are encoded into tables improved the task word classification. In this research, words are encoded into tables and apply the table based KNN to the index optimization task. From this research, we expect the better and more stable performance than the traditional version, in this task. Therefore, this research is intended to provide the improved index optimization scheme.**

***Keyword*—Index Optimization, Table based KNN, Table Similarity**

Taeho Jo (M'97–AM'12) This author became a Member (M) of IEEE in 1997, and an Associate Member (AM) in 2012. He was born in 1970, South Korea. He received his Bachelor degree from Korea University in 1994, his Master degree from Pohang University of Science and Technology in 1997, and his PhD degree from University of Ottawa in 2006. His research area spans mainly over text mining, neural networks, machine learning, and information retrieval. He has the four year experience of working for industrial organizations and ten year experience of working for academic ones. So his research is characterized as the connection from fundamental researches for creating theories and to applied ones for developing products, by his experience of working for both sides.