

Accepted Manuscript

Title: Development of Associative Memories with Transformed Data

Authors: Lina Li, Witold Pedrycz, Zhiwu Li

PII: S1568-4946(17)30298-3

DOI: <http://dx.doi.org/doi:10.1016/j.asoc.2017.05.035>

Reference: ASOC 4239

To appear in: *Applied Soft Computing*

Received date: 26-10-2015

Revised date: 19-3-2017

Accepted date: 19-5-2017



Please cite this article as: Lina Li, Witold Pedrycz, Zhiwu Li, Development of Associative Memories with Transformed Data, Applied Soft Computing Journal <http://dx.doi.org/10.1016/j.asoc.2017.05.035>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Development of Associative Memories with Transformed Data

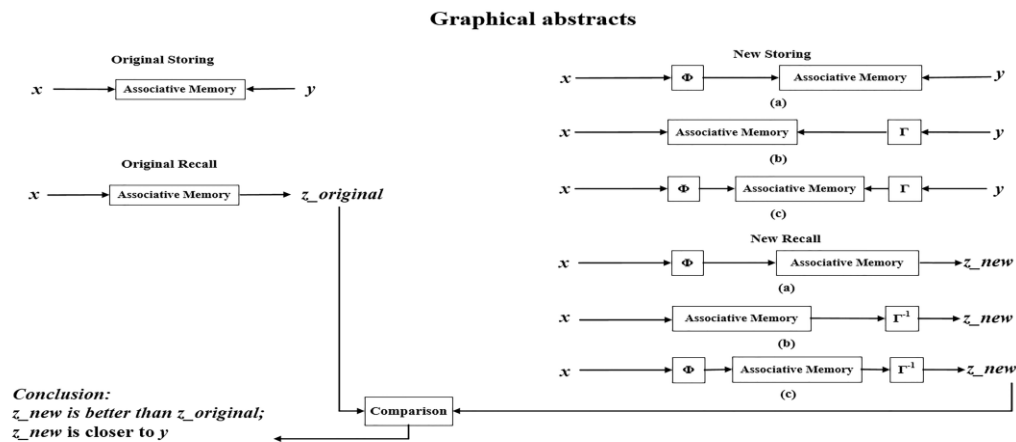
Lina Li^a, Witold Pedrycz^{b,a}, and Zhiwu Li^{c,a}

^a School of Electro-Mechanical Engineering, Xidian University, Xi'an 710071, PR China (lina_li1014@163.com)

^b Department of Electrical and Computer Engineering, University of Alberta, Edmonton, AB, T6R 2V4 Canada (wpedrycz@ualberta.ca)

^c Institute of Systems Engineering, Macau University of Science and Technology, Taipa, Macau (zhwli@xidian.edu.cn)

Graphical abstract



Highlights

- This paper argues the generic architectures by introducing transformations of spaces in which the associated data are defined.
- The enhancements of performance of associative memories is summarized by using nonlinear functions (mappings) of spaces of data to be associated.
- The influence of cutoff points of nonlinear functions is analyzed based on Particle Swarm Optimization.
- The experiments demonstrated that the improvement achieved in this way in the range of 2.3%-41.1% depending upon the number of cutoff points and the type of the associative memory.

Abstract

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات