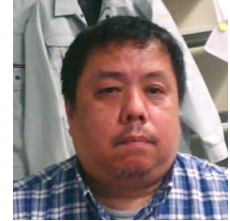


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Keywords: self-organizing map specialized neural networks, optimization, pro pulse audio

A very important topics

1. For body signals SOM (pulse group) analysis
2. Speech signal processing can be applied self-organizing map (binaural sound analysis)
3. Application of Self-Organizing Maps (weather, traveling salesman problem)

Applications for research on self-organizing map neural network is one of the memory circuit map of human-like activities appeal points. Analysis of the signal pulse group collaboration where human hope it works now completed in the year 2009. From 2010 involved the analysis of binaural sound, which is expected as industrial robots and ears. With regard to education tend to rely on memorization, "to practice his" goal is to be, want to continue to efforts to study and actually useful.

[Publications]

Publications (since 2005)

[1] Analysis of Finger Plethysmogram using the Self-Organizing Map: Proc. Of 5th Workshop on Self-Organizing Maps, Paris ,613-619, 2005.

[2] A Consideration on the Multi-Dimensional Topology in Self-Organizing Maps: Proc. Of ISPACS2006 at Yonago, FAM1-1-5-0, 2006.

[3] Classification and Visualization for acceleration pulse wave SOM : IEEJ, 48,11,3588 - 3598,2007.

Books (since 2005)

[a] Self-Organizing Maps and its Applications: Japan, Springer, hardcover, ISBN 978-4-431-72315-8 C3055, 2007.

[b] Tools and Self-Organizing Maps: hardcover, # ISBN-10: 4431100482, # ISBN-13: 978 - 4431100485, 2008.

Patents (since 2005)

- Health systems, and programs: Japan Patent No. 4132946 (2008).

- How to create a device and create a self-organizing map for Health: Japan Patent No. 4358474 (2009).