

# Aplikasi growing self organizing map dan bee colony optimization algorithm pada group technology = Application of growing self organizing map and bee colony optimization algorithm for group technology

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Abstrak

[<b>ABSTRAK</b><br>

Penelitian ini terdiri dari dua tahap. Growing self-organizing map (GSOM) algorithm dan hybrid bee colony optimization (BCO) dan self-organizing map (SOM) untuk mengimprove SOM performance. Pada tahap pertama GSOM digunakan untuk menentukan SOM topology dan pada tahap kedua, hybrid BCOSOM digunakan untuk mengadjust SOM weights. Metode BCOSOM akan dibandingkan dengan metode PSO, BCO, SOM, PSOSOM, SOM+PSO, dan SOM+BCO dengan menggunakan 4 benchmark data sets (Iriss, Glass, Wine, dan Vowel). Dari hasil komputasi menunjukkan bahwa metode BCOSOM dapat mencari solusi yang lebih baik dari algoritma lainnya. Dari hasil tersebut, BCOSOM digunakan pada Group Technology untuk menentukan part families pada komponen plat disebuah perusahaan medical furniture di Yogyakarta.

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