

Accepted Manuscript

An active learning radial basis function modeling method based on self-organization maps for simulation-based design problems

Qi Zhou , Yan Wang , Ping Jiang , Xinyu Shao ,
Seung-Kyum Choi , Jiexiang Hu , Longchao Cao ,
Xiangzheng Meng

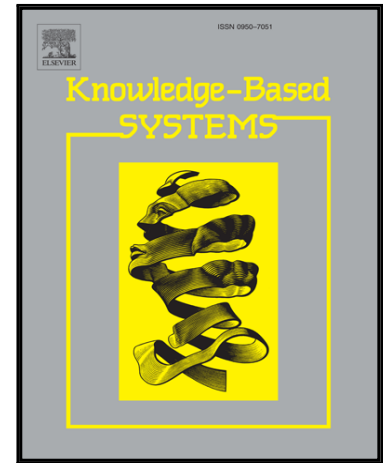
PII: S0950-7051(17)30247-2
DOI: [10.1016/j.knosys.2017.05.025](https://doi.org/10.1016/j.knosys.2017.05.025)
Reference: KNOSYS 3923

To appear in: *Knowledge-Based Systems*

Received date: 27 October 2016
Revised date: 12 May 2017
Accepted date: 24 May 2017

Please cite this article as: Qi Zhou , Yan Wang , Ping Jiang , Xinyu Shao , Seung-Kyum Choi , Jiexiang Hu , Longchao Cao , Xiangzheng Meng , An active learning radial basis function modeling method based on self-organization maps for simulation-based design problems, *Knowledge-Based Systems* (2017), doi: [10.1016/j.knosys.2017.05.025](https://doi.org/10.1016/j.knosys.2017.05.025)

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.



Highlights

- A sensitive region pursuing based active learning RBF modeling approach is proposed
- LOO error is taken as indicator to measure the sensitivity of the lost information
- The boundary of the sensitive regions is determined by self-organization maps
- Detailed comparison with other approaches are made via several numerical cases
- The proposed approach is applied to three engineering cases.

Download English Version:

<https://daneshyari.com/en/article/4946081>

Download Persian Version:

<https://daneshyari.com/article/4946081>

[Daneshyari.com](https://daneshyari.com)