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

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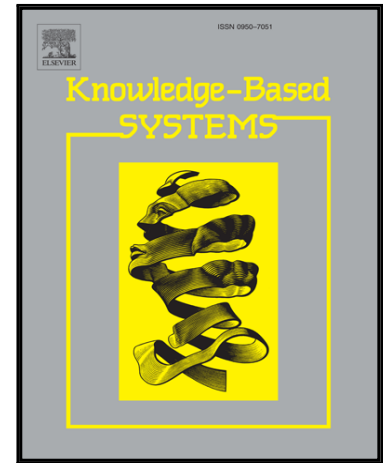
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Highlights

- 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.

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