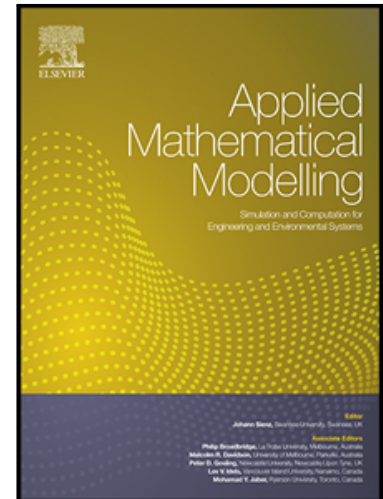


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New measures for comparing matrices and their application to image processing

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Highlights

- We present the concept of matrix resemblance functions, i.e., functions that measure the similarity between two matrices.
- We give two construction methods and study the main properties of matrix resemblance functions.
- We design an algorithm for image comparison based on matrix resemblance functions.
- We propose an application of this algorithm for defect detection in industrial manufacturing processes.
- We propose an application of this algorithm for video motion detection and object tracking.

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