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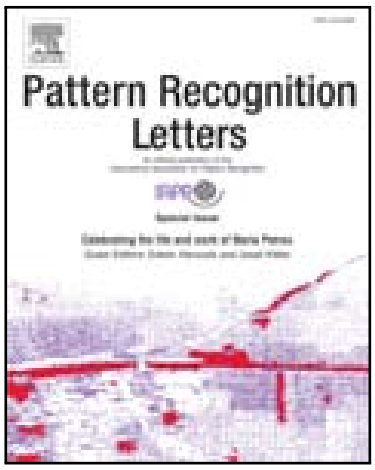

Image Registration Model and Algorithm for Multi-focus Images

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ACCEPTED MANUSCRIPT

Image Registration Model and Algorithm for Multi-focus Images

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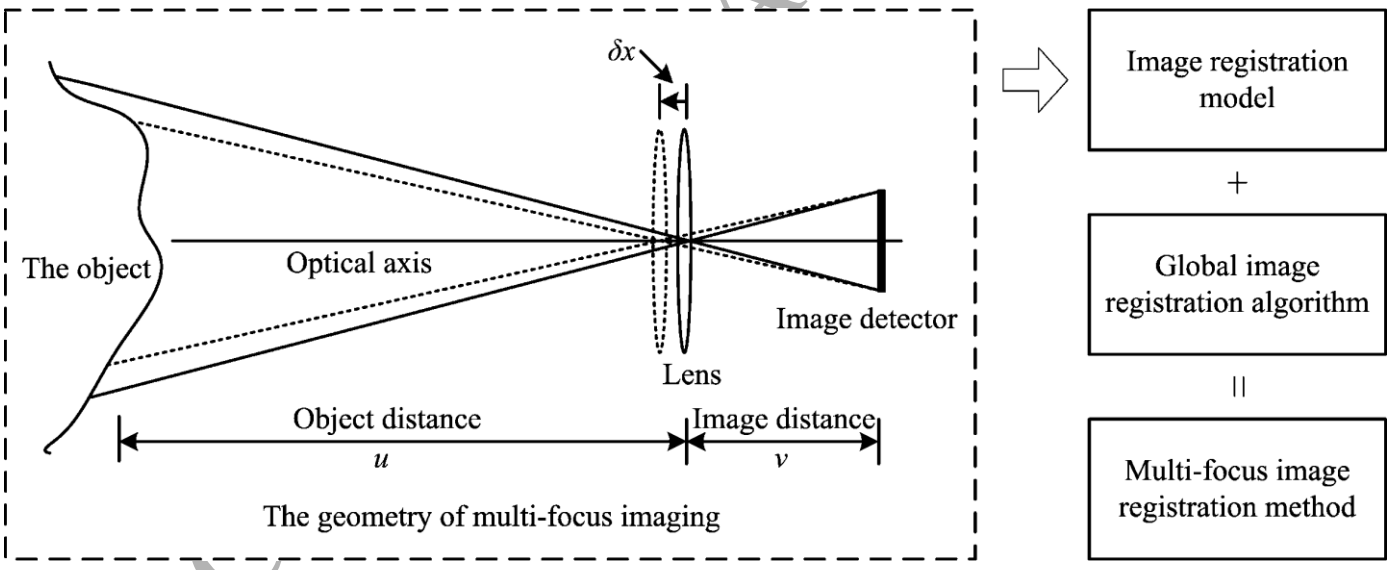
Highlights

- A model and an algorithm are proposed for multi-focus image registration.
- The model contains only one parameter, which has explicit physical meaning.
- They improve the registration accuracy and are better than the widely used method.
- Factors affecting image registration error are analyzed, and suggestions are given.

Graphical abstract



ABSTRACT

Accurate registration of multi-focus images is essential in the fields of image fusion and shape from focus. A new image registration model, which is based on the geometry of multi-focus imaging, is presented for multi-focus images. The model contains only one parameter to be calibrated, and the parameter has explicit physical meaning. Golden section

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