### **Accepted Manuscript**

Fast Half-Quadratic Algorithm for Image Restoration and Reconstruction

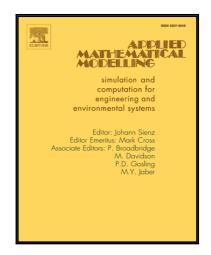
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#### ACCEPTED MANUSCRIPT

#### Highlights

- An alternating direction method is proposed as inner iterations.
- The convergence of the resulting algorithm is discussed.
- Numerical results demonstrate the effectiveness of our method.



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