



**Mathematical Problems in Image Processing:  
Partial Differential Equations and the Calculus of  
Variations (Applied Mathematical Sciences  
(Springer)) (v. 147)**

*Gilles Aubert, Pierre Kornprobst*

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Partial differential equations and variational methods were introduced into image processing about 15 years ago, and intensive research has been carried out since then. The main goal of this work is to present the variety of image analysis applications and the precise mathematics involved. It is intended for two audiences. The first is the mathematical community, to show the contribution of mathematics to this domain and to highlight some unresolved theoretical questions. The second is the computer vision community, to present a clear, self-contained, and global overview of the mathematics involved in image processing problems. This book will be useful to researchers and graduate students in mathematics and computer vision.

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