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## Regularization Methods for Tomographic Inverse Problems with Ill-posed Images.

### Communication Info

#### Authors:

Mohammed BAATI<sup>1</sup>  
Mohamed LOUZAR<sup>1</sup>  
Abdellah LAMNII<sup>2</sup>

<sup>1</sup> Hassan First University of  
Settat, FST, MISI Lab, Settat,  
Morocco.

<sup>2</sup> Abdelmalek Essaadi  
University, ISI, ENSATe Lab,  
Tetouan, Morocco.

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- (1) Inverse problem
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- (3) Regularization

### Abstract

The objective of tomography is to reconstruct the inner structure of a physical object based on radiographic images obtained from different observation angles. This problem is mathematically equivalent to finding a non-negative function  $f(x)$  from the curvilinear integrals of this function. Here, a regularization approach is proposed to solve this problem using experimental results. This approach stabilizes the ill-posed problem and provides clear image reconstructions while preserving their essential structures.

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### References

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