國家理論科學研究中心學術演講

NCTS/NCU Seminar on Scientific Computing

主講人：邵培強先生 **(國立中央大學數學系)**

題目：**MATLAB implementation of variational methods for ROF image model**

時間：**2016年10月24日(星期一) 10:00 ~12:00**

地點：**國立中央大學鴻經館M107**

Abstract:

In this talk we will demonstrate, in MATLAB, the implementation of some variational methods such as ALM [1], SB [2,3], and FTVd [4] for image denoising and deblurring. Experiments will also be included.

References:

[1] X. C. Tai and C. Wu, Augmented Lagrangian method, dual methods and split Bregman iteration for ROF model, in *Proceedings of the Second International Conference on Scale Space and Variational Methods in Computer Vision,* 2009, Springer.

[2] T. Goldstein and S. Osher, The split Bregman method for L1 regularized problems, *SIAM Journal on Imaging Sciences,* 2 (2009), pp. 323-343.

[3] P. Getreuer, Rudin-Osher-Fatemi total variation denoising using split Bregman, *Image Processing On Line,* 2 (2012), pp. 74-95.

[4] Y. Wang, W. Yin, and Y. Zhang, A fast algorithm for image deblurring with total variation regularization, *CAAM Technical Report,* 07-10 (2007), Rice University.

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