

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：A fast total variation deconvolution algorithm for image deblurring

時間：2016年10月03日(星期一) 10:00 ~12:30

地點：國立中央大學鴻經館M107

Abstract:

In this talk we will introduce a fast total variation deconvolution algorithm, called FTVd [1][2], for image deblurring. The main computation at each iteration is three Fast Fourier Transforms (FFTs) applied to some quantities of the image size. The MATLAB implementation of this method will also be discussed.

References:

- [1] 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.
- [2] Y. Wang, J. Yang, W. Yin, and Y. Zhang, A new alternating minimization algorithm for total variation image reconstruction, *SIAM Journal on Imaging Sciences*, 1 (2008), pp. 248-272.
- [3] L. I. Rudin, S. Osher, and E. Fatemi, Nonlinear total variation based noise removal algorithms, *Physica D*, 60 (1992), pp. 259-268.

Organizer: 楊肅煜 教授 (國立中央大學數學系)

電話：(03)4227151轉65130, E-mail: syyang@math.ncu.edu.tw

贊助單位：國立中央大學數學系

敬請公告 歡迎參加