

Ming–Jun Lai’s Publications

2009

- [110] Q. Hong and M. J. Lai, A Bivariate Spline Approach for Image De-Noise, submitted, 2009.
- [109] M. J. Lai and J. Wang, An unconstrained l_q minimization for sparse solution of under determined linear systems, submitted, 2009.
- [108] M. J. Lai and J. Wang, Convergence of a Central Difference Discretization of ROF Model for Image Denoising, submitted, 2009.
- [107] S. Foucart and M. J. Lai, Sparse Recovery with Pre-Gaussian Random Matrices, submitted, 2009.
- [106] S. Kersey and M. J. Lai, Nonuniform Variational Interpolatory Refinement, submitted, 2009.
- [105] Guillas and M. J. Lai, Bivariate Splines for Spatial Functional Regression Models, to appear in Journal of Nonparametric Statistics, 2009.
- [104] M. J. Lai and A. Petukhov, Method of Virtual Components in the Multivariate Setting, accepted for publication in J. of Fourier Analysis and Its Applications, 2009.
- [103] M. J. Lai, On sparse solution of underdetermined linear systems, accepted for publication in Journal of Concrete and Applicable Mathematics, 2009,
- [102] M. J. Lai, B. Lucier, and J. Wang, The convergence of a central difference discretization of Rudin–Osher–Fatemi model for image denoising, Proceedings of SSVM 2009, X.-C.Tai et al (Eds), pp. 514–526.
- [101] M. J. Lai and L. L. Schumaker, Domain decomposition method for scattered data fitting , SIAM J. Numerical Analysis, 47(2009), 911–928.
- [100] S. Foucart and M. J. Lai, Sparsest Solutions of Underdetermined Linear Systems via l_q -minimization for $0 \leq q \leq 1$, , Applied and Computational Harmonic Analysis, 26(2009) 395–407.
- [99] M. J. Lai, C. K. Shum, V. Baramidze, and P. Wenston, Triangulated spherical splines for geopotential reconstruction, J. of Geodesy, 83 (2009) 695–708.

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- [96] M. J. Lai, Popular Wavelet Families and Filters and Their Use, to appear in Encyclopedia of Complexity and System Science, edited by Meyers, Springer Verlag, 2008.
- [95] Scott Kersey and Ming–Jun Lai, Convergence of local variational spline interpolation , J. Math. Anal. App. 1. 341 (2008) 398-415.
- [94] Ming–Jun Lai, Multivariate splines for data fitting and approximation, Approximation Theory XII, San Antonio, 2007, edited by M. Neamtu and L. L. Schumaker, Nashboro Press, 2008, Brentwood, TN, pp. 210-228.
- [93] Tian–he Zhou, Dan–Fu Han, Ming–Jun Lai, Energy Minimization Method for Scattered Data Hermite Interpolation, Applied Numerical Mathematics (2008) 58, 646-659.

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- [92] Xian-Liang Hu, Dan-Fu Han, Ming-Jun Lai, Bivariate Splines of Various Degrees for Numerical Solution of Partial Differential Equations, *SIAM Journal of Scientific Computing*, 29(2007) 1338-1354.
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- [90] M, J. Lai, Convergence of three L1 spline methods for scattered data interpolation and fitting, *Journal of Approximation Theory* 145(2007), 196-211.
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