Fractional Order Image Processing Related Papers

(Last updated 3/7/2013)

**Journal Papers**

1. Dali Chen, Hu Sheng, YangQuan Chen and DingyüXue. Fractional-order variational optical flow model formotion estimation. **Phil Trans R Soc A** 20120148.<http://dx.doi.org/10.1098/rsta.2012.0148> (proofread, to appear)
2. DL Chen, DY Xue, YQ Chen. “Fractional Differential-Based Approach for CT Image Enhancement” **Advanced Materials Research**, Vols. 634-638 (2013) pp 3962-3965. doi:10.4028/www.scientific.net/AMR.634-638.3962
3. Shenshen Sun, Dali Chen, DingyuXue and YangQuan Chen. "Fractional-Order Level Set Models for Image Segmentation**" Signal, Image and Video Processing** (under review)
4. Dali Chen, YangQuan Chen, and DingyuXue. “Three Fractional-Order TV-L2 Models for Image Denoising” **journal of computational information systems** (Accepted to appear in 2013) http://www.jofcis.com/
5. Dali Chen, YangQuan Chen, and DingyuXue. “Adaptive Fractional Order Diffusion Model for Mixed Noise Removing” **IEEE Trans. on Image Processing** (under review)
6. Dali Chen, YangQuan Chen, and DingyuXue. “Fractional differentiation-based approach for robust image edge detection**.” IET Image Processing** (revised)
7. Dali Chen, Shenshen Sun, Congrong Zhang, YangQuan Chen, DingyuXue. Fractional-Order TV-L2 Model for Image Denoising. 2013. Special Issue on "Fractional Calculus: Theory and Numerical Methods” <http://versita.com/cejp/authors/issue> (**Central European Journal of Physics**) (under review)
8. Dali Chen, YangQuan Chen\* and DingyuXue. “Digital Fractional Order Savitzky-Golay Differentiator.” **IEEE Trans. Circuit and Systems II**, Volume: 58 Issue: 11 Pages: 758-762 Published: NOV 2011, DOI: 10.1109/TCSII.2011.2168022
9. Dali Chen, YangQuan Chen, DingyuXue. 1-D and 2-D digital fractional-order Savitzky-Golay differentiator. **Signal, Image and Video Processing** 05/2012; 6(3):503-511. DOI 10.1007/s11760-012-0334-0
10. Dali Chen, DingyuXue, YangQuan Chen. “Nonlinear Diffusion Model for Fabric Image Denoising.” **Advanced Materials Research** Vol. 627 (2013) pp 484-488. © (2013) Trans Tech Publications, Switzerland. doi:10.4028/www.scientific.net/AMR.627.484
11. Da-Li Chen, Cong-Rong Zhang, Ding-Yu Xue and Yang-Quan Chen. “Non-local Fractional Differential-Based Approach for Image Enhancement” **Research Journal of Applied Sciences, Engineering and Technology,** (ISSN: 2040-7459) (Accepted to appear in 2013) <http://www.maxwellsci.com/jp/j2p.php?jid=RJASET>

**Conference Proceedings (Peer Reviewed)**

1. Dali Chen, DingyuXue, YangQuan Chen. “Fractional differentiation-based approach for robust image edge detection” (#046) **Proceedings of 2012 Fractional Derivative and Applications (FDA2012), Nanjing, China, May 15-17, 2012.**
2. Chen, Da-li\*; Chen, YangQuan; Xue, Dingyu; Pan, Feng. “Adaptive Image Enhancement Based on Fractional Differential Mask.” 24th Chinese Control and Decision Conference. <http://www.ccdc.neu.edu.cn/>
3. Chen, Da-li\*; Chen, YangQuan; Xue, Dingyu (87580; 19728; 89398). “Robust Fractional Order Differentiator.” 24th Chinese Control and Decision Conference. <http://www.ccdc.neu.edu.cn/>
4. Dali Chen, YangQuan Chen\*, and DingyuXue. Digital Fractional Order Savitzky-Golay Differentiator and its Application, DETC2011-47864 **Proc. of the ASME DETC/CIE 2011 Conferences, Washington DC, August 29-31, 2011. The Fifth International Symposium on Fractional Derivatives and Their Applications, part of The 7th ASME/IEEE MESA (Mechatronics and Embedded Systems and Applications) Conference.**
5. DaLi Chen+, YangQuan Chen\*, Hu Sheng+ "Fractional Variational Optical Flow Model for Motion Estimation”. **In Proceedings of the 4th IFAC Workshop on Fractional Differentiation and Its Applications, University of Extremadura, Badajoz, Spain, October 18-20, 2010.**