Associate Professor Lu Xiao Ping

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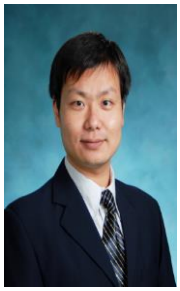

Academic Qualification:

2010-2013 Ph.D /Computer Technology and Application /M.U.S.T
2004-2007 Master/Comp.Math/FDU
2000-2004 Bachelor/Math/FDU

Teaching Area

Calculus, Linear Algebra

Research Area

Big Data; Inverse Problem; Numerical Analysis; Asteroid Shape Reconstruction

Working Experience

2007 -- Present M.U.S.T.
2018.1 -- 2018.3: Scholar Visitor in Department of Earth and Planetary, UCLA, USA
2012.7 -- 2012.8: Short-Term Visiting in Tampere Univeristy of Technology, Finland

Academic Publication (selected)

1. Lu Xiaoping. Refined Method for Nonlinear Eigenvalue Problem. Journal of Macau University of Science and Technology. Vol. 4, No.2, P37-41, 2010.

2. Lu Xiaoping. Adaptive Optimal Morphological Filter to Remove Impulse Noise in Images. Journal of Macau University of Science and Technology. Vol. 5, No.2, P8- 12, 2011.

3. Lu Xiaoping, Tian Xiaolin. Statistical Morphological Filter to Remove the Im- pulse Noise. Journal of Macau University of Science and Technology. Vol. 6, No.2, P21-27, 2012.

4. M. Kaasalainen, Lu Xiaoping, A. Vo¨nttinen. Optimal Computation of Bright- ness Integrals Parametrized on the Unit Sphere. A&A(Astronomy & Astrophysics). (SCI). Vol.539, A96, 2012.

5. Lu Xiaoping, Zhao Haibin, You Zhong. Observation Plan for Refining Shape Model. EMP(Earth, Moon and Planets). (SCI). Vol.110, No. 1, P81-89, 2013.

6. Lu Xiaoping, Zhao Haibin, You Zhong. A Fast Ellipsoid Model for Asteroids Inverted From Lightcurves. RAA(Research in Astronomy and Astrophysics). (SCI). Vol.13, NO.4, P465-472, 2013.

7. Lu Xiaoping, Zhao Haibin, You Zhong. Inverse Problem Research about Shape Determinant of Asteroid from Lightcurves. Journal of Macau University of Science and Technology. Vol.7, NO.1, P21-25, 2013.

8. Lu Xiaoping, Zhao Haibin, You Zhong. ‘Cellinoid’ Shape Model for Asteroids. EMP(Earth, Moon and Planets). (SCI) .Vol. 112, No. 1-4, P73-87, 2014.

9. Lu Xiaoping. Analyzing Center of Mass and Moment of Inertia of CELLINOID Shape. Journal of Macau University of Science and Technology. Vol. 8, No. 1, P35-41, 2014.

10. Lu Xiaoping, Ip WingHuen. Cellinoid Shape model for multiple light curves. Planetary and Space Science(SCI). Vol. 108, P31-40,2015.

11. Lu Xiaoping, Cellino Alberto, Hestroffer Daniel, Ip WingHuen. Cellinoid Shape model for Hipparcos Data, Icarus(SCI). Vol. 267, P24-33, 2016.

12. Huang Xiang-Jie, Jin Xin, Lao Sinhang, NG Manhei, Lu Xiao-Ping. Research on Rotational Period of NEA:2011UW158. Journal of Macau University of Science and Technology. Vol. 10, No. 1, P35-43, 2016.

13. Wang Hao, Ma Yue-Hua, Zhao Hai-Bin, Lu Xiao-Ping. Analysis of Q-type Near-Earth Asteroid Spectra with Modified Gaussian Model. Acta Astronomica Sinica.Vol. 57, No. 4, P437-446, 2016.

14. Lu Xiaoping, Ip WingHuen, Huang XiangJie, Zhao HaiBin. Analysis for Cellinoid shape model in inverse process from lightcurves. Planetary and Space Science(SCI). Vol. 135, P74-85, 2017.

15. Li JianYang, M. Kelley, N. Samarasinha, D. Farnocchia, M. Mutchler, Y. Ren, Lu Xiaoping, D. Tholen, T. Lister, M. Micheli. The unusual apparition of Comet 252P/2000 G1(LINEAR) and comparison with Comet P/2016 BA14(PanSTARRS). The Astronomical Journal(SCI). 154:136(16pp), 2017.

16. Huang Xiang-Jie, Lu Xiaoping, Li Jian-Yang, Mei Bao,Hsia Chih-Hao and Zhao Hai-Bin. Scattering Law Analysis Based on Hapke and Lommel-Seeliger Models for Asteroidal Taxonomy. Research in Astronomy and Astrophysics(SCI). Vol. 17, No.10, 106(8pp), 2017.

17. Lu Xiaoping, Huang XiangJie, Ip WingHuen, Hsia ChiHao. Lebedev acceleration and comparison of different photometric models in the inversion of lightcurves for asteroids. Planetary and Space Science(SCI). Vol. 153, P1-10, 2018.

Research Projects

2011.01 -- 2013.12	Astronomical Observations and Space Exploration of Solar system small bodies (FDCT)
2014.10 -- 2017.10	Observation and Research of Asteroidal Lightcurves with Large Scale Sampling (FDCT)
2016.01 -- 2017.12	Scattering Characteristic Research for Asteroids (CAS)
2017.11 -- 2020.12	The Origins of Asteroids of Different Orbital and Taxonomic Types and Their Space Ex
2018.12 -- 2020.06	Improvement of calculating photometric brightness based on Cellinoid shape model for a