

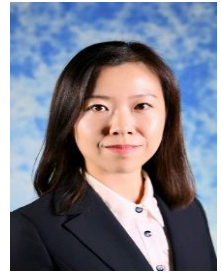
Associate Professor Yang Lei

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Academic Qualification:

Ph. D., HKUST, 2008

M. Sc., Sichuan University, 2004

B. Sc., Sichuan University, 2003

Teaching Area

Advanced Mathematics, Linear Algebra, Calculus, Probability and Statistics, Logistics etc.

Research Area

Numerical Methods, Numerical PDEs, Numerical Micromagnetics, Data Analysis, etc.

Working Experience

2014-Present, MUST

2010-2012, Lecturer, HKBU

2008-2010, Research Assistant, HKBU

Academic Publication (selected)

L. Yang, J. Chen, and G. Hu, A framework of the finite element solution of the Landau-Lifshitz-Gilbert equation on tetrahedral meshes, *Journal of Computational Physics*, Vol. 431, 110142, 15 April 2021.

L. Yang, F. Liu and W. Yang, FETD Study of the Wave Propagation in Chiral Metamaterials, *Advances in Applied Mathematics and Mechanics*, Vol. 13, No. 1, pp. 191-202, February 2021.

J. Chen, Z. Sun, Y. Wang and L. Yang, A Spin-Wave Solution to the Landau-Lifshitz-Gilbert Equation, *Communications in Mathematical Sciences*, Vol. 19, No. 1, pp. 193-204, 2021.

L. Yang, F. Liu and W. Yang, FETD Study of the Wave Propagation in Chiral Metamaterials, *Advances in Applied Mathematics and Mechanics*, Vol. 13, No. 1, pp. 191-202, 2021.

L. Yang, Y. Shen, Z. Hu and G. Hu, An Implicit Solver for the Time-Dependent Kohn-Sham Equation, *Numer. Math. Theor. Meth. Appl.*, doi:10.4208/nmtma.OA-2020-0040, 2020.

L. Zheng, L. Yang, Y. Liang, A Modified Spectral Gradient Projection Method for Solving Non-linear Monotone Equations with Convex Constraints and Its Application, *IEEE Access*, 92677-92686, Vol. 8, 2020.

L. Zheng, L. Yang, Y. Liang, A conjugate gradient projection method for solving equations with convex constraints, *Journal of Computational and Applied Mathematics*, 112781, Vol. 375, 2020.

J. Chen, L. Yang, X.P. Wang, A reduced model for domain wall dynamics in soft ferromagnets, *Journal of Magnetism and Magnetic Materials*, 199-203, Vol. 479, 2019.

L. Yang, G. Hu, An adaptive finite element solver for demagnetization field calculation, *Adv. Appl. Math. Mech.*, Vol. 11, No. 5, pp. 1048-1063, 2019.

- X. Liang, L. Yang, S. Luo, Facial Expression Recognition Based on Gabor Multi-Orientation Feature Fusion, 3rd International Conference on Machine Vision and Information Technology (CMVIT 2019)
- L. Yang, Pinning Effect on Current-Induced Domain Wall Motion in Nanostrip, EAJAM, 837-851, Vol. 7, No. 4, 2017.
- Y. Liu; D. Zhang; X. Guo; M. Zhong; M. Gao; L. Yang; L. Ni, RSS-based Ranging by Leveraging Frequency Diversity to Distinguish the Multiple Radio Paths, IEEE Transactions on Mobile Computing, 1121-1135, Vol. 16 No. 4 2017
- W. Yang, D.L. Wang, L. Yang, A stable numerical method for space fractional Landau-Lifshitz equations, Applied Mathematics Letters, 149–155, Volume 61, 2016.
- L. Yang and X.P. Wang, Dynamics of domain wall in thin film driven by spin current, Discrete and Continuous Dynamical Systems Series B, Vol. 14, No. 3, 2010.

Professional Society Membership