RESEARCH OUTPUTS 2020 – 2021

Chapter in an edited book (author)

1   LI YEHUA, XU,Ian and **LIU,Catherine Chunling**,"Functional Data Modeling and Hypothesis Testing for Longitudinal Alzheimer Genome-Wide Association Studies". 2021. Springer International Publishing Springer International Publishing

2   **ZHANG,Zaikun**,"无导数优化". 2021. 中国学科发展战略：数学优化 科学出版社, p. 84-92.

Publication in refereed journal

3   **LI,Buyang** and MA,Shu#,"A High-order Exponential Integrator for Nonlinear Parabolic Equations with Nonsmooth Initial Data". Journal of Scientific Computing. 2021 Apr;87(1): p. 1-16. 23. https://doi.org/10.1007/s10915-021-01438-7

4   **QIAO,Zhonghua**, YANG,Xuguang and ZHANG,Yuze,"A Novel Lattice Boltzmann Model for Fourth Order Nonlinear Partial Differential Equations". Journal of Scientific Computing. 2021 Apr;87(2): p. 1-18. 51. https://doi.org/10.1007/s10915-021-01471-6

5   HE,Fang, **CHEN,Xiaojun** and WANG,Xiao,"A Penalty Relaxation Method for Image Processing Using Euler's Elastica Model". SIAM Journal on Imaging Sciences. 2021 Mar;14(1): p. 389–417. https://doi.org/10.1137/20M1335601

6   **LI,Buyang**,"A bounded numerical solution with a small mesh size implies existence of a smooth solution to the Navier–Stokes equations". Numerische Mathematik. 2021 Feb;147(2): p. 283-304. https://doi.org/10.1007/s00211-021-01172-0

7   KOVÁCS,BaláZs, **LI,Buyang** and LUBICH,Christian,"A convergent algorithm for forced mean curvature flow driven by diffusion on the surface". Interfaces and Free Boundaries. 2020 Dec;22(4): p. 443-464. https://doi.org/10.4171/IFB/446

8   CHEN,Chen, **PONG,Ting Kei**, TAN,Lulin and ZENG,Liaoyuan,"A difference-of-convex approach for split feasibility with applications to matrix factorizations and outlier detection". Journal of Global Optimization. 2020 Sep;78(1): p. 107-136. https://doi.org/10.1007/s10898-020-00899-8

9   **LI,Xun**, **TAI,Hoi Lun Allen** and TIAN,Fei,"A discrete-time mean-field stochastic linear-quadratic optimal control problem with financial application". International Journal of Control. 2021 Jan;94(1): p. 175-189. https://doi.org/10.1080/00207179.2019.1588478

10   YANG,Lei, LI,Jia, **SUN,Defeng** and TOH,Kim Chuan,"A fast globally linearly convergent algorithm for the computation of wasserstein barycenters". Journal of Machine Learning Research. 2021 Jan;22: p. 1-37.

11   SUN,Zhe and **YANG,Xiaoqi**,"A generalized Newton method for a class of discrete-time linear complementarity systems". European Journal of Operational Research. 2020 Oct;286(1): p. 39-48. https://doi.org/10.1016/j.ejor.2020.03.058

12   **LI,Buyang**, WANG,Kai# and ZHANG,Zhimin,"A hodge decomposition method for dynamic Ginzburg-Landau equations in nonsmooth domains - A second approach". Communications in Computational Physics. 2020 Aug;28(2): p. 768-802. https://doi.org/10.4208/CICP.OA-2019-0117

13   LIU,TIANXIANG, MARKOVSKY,IVAN, **PONG,TING KEI** and TAKEDA,AKIKO,"A hybrid penalty method for a class of optimization problems with multiple rank constraints". SIAM Journal on Matrix Analysis and Applications. 2020 Sep;41(3): p. 1260-1283. https://doi.org/10.1137/19M1269919

14   **GUO,Xin**, FU,Qiang, WANG,Yue# and LAND,Kenneth C.,"A numerical method to compute Fisher information for a special case of heterogeneous negative binomial regression". Communications on Pure and Applied Analysis. 2020 Aug;19(8): p. 4179-4189. https://doi.org/10.3934/cpaa.2020187

15   JIN,Zhuo, **XU,Zuo Quan** and ZOU,Bin,"A perturbation approach to optimal investment, liability ratio, and dividend strategies". Scandinavian Actuarial Journal. 2021 Jun: p. 1-24. https://doi.org/10.1080/03461238.2021.1938199

16   ZHANG,Kai and **YANG,Xiaoqi**,"A power penalty method for discrete HJB equations". Optimization Letters. 2020 Sep;14(6): p. 1419-1433. https://doi.org/10.1007/s11590-019-01517-7

17   ZHANG,YANGJING, ZHANG,NING, **SUN,DEFENG** and TOH,KIM CHUAN,"A proximal point dual newton algorithm for solving group graphical lasso problems". SIAM Journal on Optimization. 2020 Aug;30(3): p. 2197-2220. https://doi.org/10.1137/19M1267830

18   GAO,Yali, LI,Rui, MEI,Liquan and **LIN,Yanping**,"A second-order decoupled energy stable numerical scheme for Cahn-Hilliard-Hele-Shaw system". Applied Numerical Mathematics. 2020 Nov;157: p. 338-355. https://doi.org/10.1016/j.apnum.2020.06.010

19   **LI,BUYANG**, UEDA,YUKI and ZHOU,GUANYU,"A second-order stabilization method for linearizing and decoupling nonlinear parabolic systems". SIAM Journal on Numerical Analysis. 2020 Sep;58(5): p. 2736-2763. https://doi.org/10.1137/19M1296136

20   TANG,Peipei, WANG,Chengjing, **SUN,Defeng** and TOH,Kim Chuan,"A sparse semismooth Newton based proximal majorization-minimization algorithm for nonconvex square-root-loss regression problems". Journal of Machine Learning Research. 2020 Dec;21: p. 1-38.

21   ZHANG,Shuaiqi, **LI,Xun** and XIONG,Jie,"A stochastic maximum principle for partially observed stochastic control systems with delay". Systems and Control Letters. 2020 Dec;146: p. 1-7. 104812. https://doi.org/10.1016/j.sysconle.2020.104812

22   LI,Xinxin, **PONG,Ting Kei**, SUN,Hao and WOLKOWICZ,Henry,"A strictly contractive Peaceman-Rachford splitting method for the doubly nonnegative relaxation of the minimum cut problem". Computational Optimization and Applications. 2021 Jan;78(3): p. 853-891. https://doi.org/10.1007/s10589-020-00261-4

23   GU,Jiaxin, **GUO,Xin**, VEENSTRA,Gerry, ZHU,Yushu and FU,Qiang,"Adolescent Marijuana Use in the United States and Structural Breaks: An Age-Period-Cohort Analysis, 1991–2018". American Journal of Epidemiology. 2021 Jun;190(6): p. 1056-1063. https://doi.org/10.1093/aje/kwaa269

24   ZHU,Shuying, TAO,Jun, GAO,Huizhi and **HE,Daihai**,"Age, source, and future risk of COVID-19 infections in two settings of Hong Kong and Singapore". BMC Research Notes. 2020 Jul;13(1): p. 1-3. 336. https://doi.org/10.1186/s13104-020-05178-z

25   FU,Qiang, ZHUANG,Yufan, GU,Jiaxin, ZHU,Yushu and **GUO,Xin**,"Agreeing to Disagree". Big Data Research. 2021 Feb;23: p. 1-9. 100173. https://doi.org/10.1016/j.bdr.2020.100173

26   ZHANG,Ning, ZHANG,Yangjing, **SUN,Defeng** and TOH,Kim-Chuan,"An Efficient Linearly Convergent Regularized Proximal Point Algorithm for Fused Multiple Graphical Lasso Problems". SIAM Journal on Mathematics of Data Science. 2021 Apr;3(2): p. 524-543. https://doi.org/10.1137/20M1344160

27   JIANG,Rujun, **YUE,Man Chung** and ZHOU,Zhishuo,"An accelerated first-order method with complexity analysis for solving cubic regularization subproblems". Computational Optimization and Applications. 2021 Jun;79(2): p. 471-506. https://doi.org/10.1007/s10589-021-00274-7

28   LI,Xudong, **SUN,Defeng** and TOH,Kim Chuan,"An asymptotically superlinearly convergent semismooth newton augmented lagrangian method for linear programming". SIAM Journal on Optimization. 2020 Sep;30(3): p. 2410-2440. https://doi.org/10.1137/19M1251795

29   CHEN,Xiaolin, **LIU,Catherine Chunling** and XU,Sheng#,"An efficient algorithm for joint feature screening in ultrahigh-dimensional Cox's model". Computational Statistics. 2021 Jun;36(2): p. 885-910. https://doi.org/10.1007/s00180-020-01032-9

30   JIN,Bangti and **ZHOU,Zhi**,"An inverse potential problem for subdiffusion: stability and reconstruction". Inverse Problems. 2021 Jan;37(1): p. 1-26. 015006. https://doi.org/10.1088/1361-6420/abb61e

31   ZENG,Liaoyuan, YU,Peiran# and **PONG,Ting Kei**,"Analysis and Algorithms for Some Compressed Sensing Models Based on L1/L2 Minimization". SIAM Journal on Optimization. 2021 Jun;31(2): p. 1576-1603. https://doi.org/10.1137/20M1355380

32   BIAN,Wei, **CHEN,Xiaojun a**nd KELLEY,C. T.,"Anderson acceleration for a class of nonsmooth fixed-point problems". SIAM Journal on Scientific Computing. 2021 Jan;0(0): p. S1-S20. https://doi.org/10.1137/20M132938X

33   WEN,Jiaqiang, **LI,Xun** and HU,Ying,"Anticipated backward stochastic differential equations with quadratic growth". Journal of Differential Equations. 2021 Jan;270: p. 1298-1331. https://doi.org/10.1016/j.jde.2020.07.001

34   **LI,Buyang**, YANG,Jiang and **ZHOU,Zhi**,"Arbitrarily high-order exponential cut-off methods for preserving maximum principle of parabolic equations". SIAM Journal of Scientific Computing. 2020 Dec;42(6): p. A3957–A3978. https://doi.org/10.1137/20M1333456

35   ZHAO,Shi, YANG,Zuyao, MUSA,Salihu S.#, RAN,Jinjun, CHONG,Marc K.C., JAVANBAKHT,Mohammad, **HE,Daihai** and WANG,Maggie H.,"Attach importance of the bootstrap t-test against Student's t-test in clinical epidemiology". Epidemiology and Infection. 2021 Apr;149: p. 1-6. https://doi.org/10.1017/S0950268821001047

36   CHEN,Minghua, YU,Fan and **ZHOU,Zhi**,"Backward difference formulae: the energy technique for subdiffusion equation". Journal of Scientific Computing. 2021 Jun;87(3): p. 1-22. 94. https://doi.org/10.1007/s10915-021-01509-9

37   CHAN,Kit Yan, **YIU,Ka Fai Cedric**, LAM,Hak Keung and WONG,Bert Wei,"Ball bonding inspections using a conjoint framework with machine learning and human judgement". Applied Soft Computing. 2021 Apr;102: p. 1-13. 107115. https://doi.org/10.1016/j.asoc.2021.107115

38   CUI,Xiangyu, **LI,Xun** and YANG,Lanzhi,"Better than optimal mean-variance portfolio policy in multi-period asset-liability management problem". Operations Research Letters. 2020 Nov;48(6): p. 693-696. https://doi.org/10.1016/j.orl.2020.08.010

39   LIU,Li, SU,Wen and **ZHAO,Xingqiu**,"Bi-selection in the high-dimensional additive hazards regression model". Electronic Journal of Statistics. 2021 Jan;15(1): p. 748-772. https://doi.org/10.1214/21-EJS1799

40   RAN,Jinjun, SONG,Ying, ZHUANG,Zian, HAN,Lefei, ZHAO,Shi, CAO,Peihua, GENG,Yan, XU,Lin, QIN,Jing, **HE,Daihai**, WU,Fengfu and YANG,Lin,"Blood pressure control and adverse outcomes of COVID-19 infection in patients with concomitant hypertension in Wuhan, China". Hypertension Research. 2020 Nov;43(11): p. 1267-1276. https://doi.org/10.1038/s41440-020-00541-w

41   LEE,Chiun Chang, **WANG,Zhi An** and YANG,Wen,"Boundary-layer profile of a singularly perturbed nonlocal semi-linear problem arising in chemotaxis". Nonlinearity. 2020 Aug;33(10): p. 5111-5141. https://doi.org/10.1088/1361-6544/ab8f7c

42   JIN,Hai Yang, SHI,Shijie and **WANG,Zhi An**,"Boundedness and asymptotics of a reaction-diffusion system with density-dependent motility". Journal of Differential Equations. 2020 Oct;269(9): p. 6758-6793. https://doi.org/10.1016/j.jde.2020.05.018

43   WANG,Dehua, **WANG,Zhian** and ZHAO,Kun,"Cauchy problem of a system of parabolic conservation laws arising from the singular Keller-Segel model in multi-dimensions". Indiana University Mathematics Journal. 2021 Jan;70(1): p. 1-47. https://doi.org/10.1512/iumj.2021.70.8075

44   HE,Fang#, CHUN,Rachel Ka Man, QIU,Zicheng#, YU,Shijie#, SHI,Yun, TO,Chi Ho and **CHEN,Xiaojun**,"Choroid Segmentation of Retinal OCT Images Based on CNN Classifier and l2 - Lq Fitter". Computational and Mathematical Methods in Medicine. 2021 Jan;2021: p. 1-13. 8882801. https://doi.org/10.1155/2021/8882801

45   HAO,Meiling, **ZHAO,Xingqiu** and XU,Wei,"Competing risk modeling and testing for X-chromosome genetic association". Computational Statistics and Data Analysis. 2020 Nov;151: p. 1-15. 107007. https://doi.org/10.1016/j.csda.2020.107007

46   CHAN,Man Ho, LEE,Chak Man, NG,C. Y. and **LEUNG,Chun Sing**,"Constraining Annihilating Dark Matter Mass by the Radio Continuum Spectral Data of a High-redshift Galaxy Cluster". Astrophysical Journal. 2020 Sep;900(2): p. 1-9. 126. https://doi.org/10.3847/1538-4357/aba74b

47   WONG,Eugene Yin Cheung, **TAI,Allen H.** and SO,Stuart,"Container drayage modelling with graph theory-based road connectivity assessment for sustainable freight transportation in new development area". Computers and Industrial Engineering. 2020 Nov;149: p. 1-11. 106810. https://doi.org/10.1016/j.cie.2020.106810

48   **LI,Xiao**, **QIAO,Zhonghua** and WANG,And Cheng,"Convergence analysis for a stabilized linear semi-implicit numerical scheme for the nonlocal Cahn–Hilliard equation". Mathematics of Computation. 2021 Jan;90(327): p. 171-188. https://doi.org/10.1090/mcom/3578

49   **LI,Buyang**,"Convergence of Dziuk's linearly implicit parametric finite element method for curve shortening flow". SIAM Journal on Numerical Analysis. 2020 Aug;58(4): p. 2315-2333. https://doi.org/10.1137/19M1305483

50 **LI,Buyang**,"Convergence of Dziuk's semidiscrete finite element method for mean curvature flow of closed surfaces with high-order finite elements". SIAM Journal on Numerical Analysis. 2021 Jun;59(3): p. 1592-1617. https://doi.org/10.1137/20M136935X

51 AKRIVIS,Georgios, **LI,Buyang** and WANG,Jilu,"Convergence of a second-order energy-decaying method for the viscous rotating shallow water equation". SIAM Journal on Numerical Analysis. 2021 Jan;59(1): p. 265-288. https://doi.org/10.1137/20M1328051

52 YU,Peiran#, **PONG,Ting Kei** and LU,Zhaosong,"Convergence rate analysis of a sequential convex programming method with line search for a class of constrained difference-of-convex optimization problems". SIAM Journal on Optimization. 2021 Apr;31(3): p. 2024-2054. https://doi.org/10.1137/20M1314057

53 **SUN,Defeng**, TOH,Kim Chuan and **YUAN,Yancheng**,"Convex clustering: Model, theoretical guarantee and efficient algorithm". Journal of Machine Learning Research. 2021 Jan;22: p. 1-32.

54 JIN,Hai Yang and **WANG,Zhi An**,"Critical mass on the keller-segel system with signal-dependent motility". Proceedings of the American Mathematical Society. 2020 Nov;148(11): p. 4855-4873. https://doi.org/10.1090/proc/15124

55 **LEE,H. W.J., LEE**,Y. C.E.#, WONG,Kar Hung and TEO,Kok Lay,"Differential equation approximation and enhancing control method for finding the PID gain of a quarter-car suspension model with state-dependent ODE". Journal of Industrial and Management Optimization. 2020 Sep;16(5): p. 2305-2330. https://doi.org/10.3934/JIMO.2019055

56 WANG,Qingzheng#, GUO,Shan# and **YIU,Ka Fai Cedric**,"Distributed Acoustic Beamforming with Blockchain Protection". IEEE Transactions on Industrial Informatics. 2020 Nov;16(11): p. 7126-7135. 9007426. https://doi.org/10.1109/TII.2020.2975899

57 LI,Zhibao, **YIU,Ka Fai Cedric**, DAI,Yu Hong and NORDHOLM,Sven,"Distributed LCMV beamformer design by randomly permuted ADMM". Digital Signal Processing: A Review Journal. 2020 Nov;106: p. 1-9. 102820. https://doi.org/10.1016/j.dsp.2020.102820

58 **GUO,Xin**, HU,Ting and WU,Qiang,"Distributed minimum error entropy algorithms". Journal of Machine Learning Research. 2020 Jul;21: p. 1-31.

59 MUSA,Salihu Sabiu#, ZHAO,Shi#, HUSSAINI,Nafiu, USAINI,Salisu and **HE,Daihai**,"Dynamics analysis of typhoid fever with public health education programs and final epidemic size relation". Results in Applied Mathematics. 2021 May;10: p. 1-13. 100153. https://doi.org/10.1016/j.rinam.2021.100153

60 ZHANG,Xue, SUN,Bei and **LOU,Yijun**,"Dynamics of a periodic tick-borne disease model with co-feeding and multiple patches". Journal of Mathematical Biology. 2021 Mar;82(4): p. 1-27. 27. https://doi.org/10.1007/s00285-021-01582-6

61 LIU,Yao, ZHAO,Shi#, LI,Yifan, SONG,Wanmei, YU,Cuixiang, GAO,Lei, RAN,Jinjun, **HE,Daihai** and LI,Huaichen,"Effect of ambient air pollution on tuberculosis risks and mortality in Shandong, China". Environmental Science and Pollution Research. 2021 Jun;28(22): p. 27757-27768. https://doi.org/10.1007/s11356-021-12621-6

62 CAI,Wentao, **LI,Buyang** and LI,Ying,"Error analysis of a fully discrete finite element method for variable density incompressible flows in two dimensions". ESAIM: Mathematical Modelling and Numerical Analysis. 2021 Feb;55: p. S103-S147. https://doi.org/10.1051/m2an/2020029

63 JIN,Bangti and **ZHOU,Zhi,**"Error analysis of finite element approximations of diffusion coefficient identification for elliptic and parabolic problems". SIAM Journal on Numerical Analysis. 2021 Jan;59(1): p. 119–142. https://doi.org/10.1137/20M134383X

64 LI,Chunyu, ZHAO,Shi, TANG,Biao, ZHU,Yuchen, RAN,Jinjun, LI,Xiujun and **HE,Daihai**,"Estimating the Instantaneous Asymptomatic Proportion With a Simple Approach". Frontiers in Public Health. 2021 May;9: p. 1-6. 604455. https://doi.org/10.3389/fpubh.2021.604455

65 LI,Chunyu, ZHU,Yuchen, QI,Chang, LIU,Lili, ZHANG,Dandan, WANG,Xu, SHE,Kaili, JIA,Yan, LIU,Tingxuan, **HE,Daihai**, XIONG,Momiao and LI,Xiujun,"Estimating the Prevalence of Asymptomatic COVID-19 Cases and Their Contribution in Transmission - Using Henan Province, China, as an Example". Frontiers in Medicine. 2021 Jun;8: p. 1-8. 591372. https://doi.org/10.3389/fmed.2021.591372

66 ZHAO,Shi, GAO,Daozhou, ZHUANG,Zian, CHONG,Marc K.C., CAI,Yongli, RAN,Jinjun, CAO,Peihua, WANG,Kai, **LOU,Yijun**, WANG,Weiming, YANG,Lin, **HE,Daihai** and WANG,Maggie H.,"Estimating the Serial Interval of the Novel Coronavirus Disease (COVID-19)". Frontiers in Physics. 2020 Sep;8: p. 1-7. 347. https://doi.org/10.3389/fphy.2020.00347

67 ZHUANG,Zian, CAO,Peihua, ZHAO,Shi, **LOU,Yijun**, YANG,Shu, WANG,Weiming, YANG,Lin and **HE,Daihai**,"Estimation of Local Novel Coronavirus (COVID-19) Cases in Wuhan, China from Off-Site Reported Cases and Population Flow Data from Different Sources". Frontiers in Physics. 2020 Sep;8: p. 1-6. 336. https://doi.org/10.3389/fphy.2020.00336

68 MUSA,Salihu S.#, ZHAO,Shi, WANG,Maggie H., HABIB,Abdurrazaq G., MUSTAPHA,Umar T. and **HE,Daihai**,"Estimation of exponential growth rate and basic reproduction number of the coronavirus disease 2019 (COVID-19) in Africa". Infectious Diseases of Poverty. 2020 Jul;9(1): p. 1-6. 96. https://doi.org/10.1186/s40249-020-00718-y

69   STONE,Lewi, **HE,Daihai**, LEHNSTAEDT,Stephan and ARTZY-RANDRUP,Yael,"Extraordinary curtailment of massive typhus epidemic in the Warsaw Ghetto". Science advances. 2020 Jul;6(30): p. 1-8. abc0927. https://doi.org/10.1126/sciadv.abc0927

70   YANG,Shu, FENG,Xixi, DU,Peipei, **HE,Daihai**, ESTILL,Janne, YANG,Lin, WEN,Chuanbiao, LUO,Jiawei, WANG,Xiaohui, LU,Liqun, LI,Tingting, TANG,Xiujuan, LI,Weiguo, XU,Hongmei, LIU,Enmei, CAO,Peihua and CHEN,Yaolong,"Family exposure and the impact of containment measures to children with coronavirus disease 2019 outside Hubei, China". Translational Pediatrics. 2021 Jan;10(1): p. 92-102. https://doi.org/10.21037/tp-20-214

71   WANG,Xinyu, YANG,Lu, ZHANG,Hong, YANG,Zhouwang and **LIU,Catherine**,"Forecasting confirmed cases of the COVID-19 pandemic with a migration-based epidemiological model". Statistics and its Interface. 2021 Feb;14(1): p. 59-71. https://doi.org/10.4310/20-SII641

72   GE,Jing, **HE,Daihai**, LIN,Zhigui, ZHU,Huaiping and ZHUANG,Zian,"Four-tier response system and spatial propagation of COVID-19 in China by a network model". Mathematical Biosciences. 2020 Dec;330: p. 1-10. 108484. https://doi.org/10.1016/j.mbs.2020.108484

73   HE,Baihua, LIU,Yanyan, WU,Yuanshan, YIN,Guosheng and **ZHAO,Xingqiu**,"Functional martingale residual process for high-dimensional cox regression with model averaging". Journal of Machine Learning Research. 2020 Oct;21: p. 1-37.

74   **WANG,Zhi An** and ZHENG,Jiashan,"Global Boundedness of the Fully Parabolic Keller-Segel System with Signal-Dependent Motilities". Acta Applicandae Mathematicae. 2021 Feb;171(1): p. 1-19. 25. https://doi.org/10.1007/s10440-021-00392-8

75   JIN,Hai Yang and **WANG,Zhi An**,"Global dynamics and spatio-Temporal patterns of predator-prey systems with density-dependent motion". European Journal of Applied Mathematics. 2020 Aug;32(4): p. 652-682. https://doi.org/10.1017/S0956792520000248

76   PENG,Hongyun, **WANG,Zhi An** and ZHU,Changjiang,"Global weak solutions and asymptotics of a singular PDE-ODE Chemotaxis system with discontinuous data". Science China Mathematics. 2020 Dec: p. 1-22. https://doi.org/10.1007/s11425-019-1754-0

77   PAN,Lili and **CHEN,Xiaojun**,"Group Sparse Optimization for Images Recovery Using Capped Folded Concave Functions". SIAM Journal on Imaging Sciences. 2021 Jan;14(1): p. 1-25. https://doi.org/10.1137/19M1304799

78   TAO,Jun, ZHANG,Xiaoyu, MUSA,Salihu S.#, YANG,Lin and **HE,Daihai**,"High Infection Fatality Rate Among Elderly and Risk Factors Associated With Infection Fatality Rate and Asymptomatic Infections of COVID-19 Cases in Hong Kong". Frontiers in Medicine. 2021 May;8: p. 1-8. 678347. https://doi.org/10.3389/fmed.2021.678347

79   FENG,Xiaobing, **LI,Buyang** and MA,Shu#,"High-order mass- And energy-conserving sav-gauss collocation finite element methods for the nonlinear schrÖdinger equation". SIAM Journal on Numerical Analysis. 2021 Jun;59(3): p. 1566-1591. https://doi.org/10.1137/20M1344998

80   WANG,Kai# and **ZHOU,Zhi**,"High-order time stepping schemes for semilinear subdiffusion equations". SIAM Journal on Numerical Analysis. 2020 Nov;58(6): p. 3226-3250. https://doi.org/10.1137/19M1261225

81   LI,Na, **LI,Xun** and YU,zhiyong,"Indefinite mean-field type linear-quadratic stochastic optimal control problems". Automatica. 2020 Dec;122: p. 1-10. 109267. https://doi.org/10.1016/j.automatica.2020.109267

82   YANG,Lin, CHU,Tsun Kit, LIAN,Jinxiao, LO,Cheuk Wai, ZHAO,Shi, **HE,Daihai**, QIN,Jing and LIANG,Jun,"Individualised risk prediction model for new-onset, progression and regression of chronic kidney disease in a retrospective cohort of patients with type 2 diabetes under primary care in Hong Kong". BMJ Open. 2020 Jul;10(7): p. 1-9. e035308. https://doi.org/10.1136/bmjopen-2019-035308

83   TAO,Jun, GAO,Huizhi, ZHU,Shuying, YANG,Lin and **HE,Daihai**,"Influenza versus COVID-19 cases among influenza-like illness patients in travelers from Wuhan to Hong Kong in January 2020". International Journal of Infectious Diseases. 2020 Dec;101: p. 323-325. https://doi.org/10.1016/j.ijid.2020.09.1474

84   RAN,Jinjun, ZHAO,Shi, HAN,Lefei, PENG,Zhihang, WANG,Maggie H., QIU,Yulan and **HE,Daihai**,"Initial COVID-19 Transmissibility and Three Gaseous Air Pollutants (NO2, SO2, and CO)". Frontiers in Medicine. 2020 Sep;7: p. 1-5. 575839. https://doi.org/10.3389/fmed.2020.575839

85   XIE,Yue, **TAI,Allen H.**, CHING,Wai Ki, KUO,Yong Hong and SONG,Na,"Joint inspection and inventory control for deteriorating items with time-dependent demand and deteriorating rate". Annals of Operations Research. 2021 May;300(1): p. 225-265. https://doi.org/10.1007/s10479-021-03943-2

86   LAU,Pan Shun, LI,Chi Kwong, POON,Yiu Tung and **SZE,Nung Sing**,"Joint matricial range and joint congruence matricial range of operators". Advances in Operator Theory. 2020 Jul;5(3): p. 609-626. https://doi.org/10.1007/s43036-019-00009-w

87   LU,Shuiyun, CHEN,Xiaolin, XU,Sheng# and **LIU,Catherine Chunling**,"Joint model-free feature screening for ultra-high dimensional semi-competing risks data". Computational Statistics and Data Analysis. 2020 Jul;147: p. 12-27. 106942. https://doi.org/10.1016/j.csda.2020.106942

88   LI,Tong, WANG,Dehua, WANG,Fang, **WANG,Zhi An** and ZHAO,Kun,"Large time behavior and diffusion limit for a system of balance laws from chemotaxis in multi-dimensions". Communications in Mathematical Sciences. 2021 Mar;19(1): p. 229-272. https://doi.org/10.4310/CMS.2021.v19.n1.a10

89   HU,Yaohua, LI,Chong, MENG,Kaiwen and **YANG,Xiaoqi**,"Linear convergence of inexact descent method and inexact proximal gradient algorithms for lower-order regularization problems". Journal of Global Optimization. 2021 Apr;79(4): p. 853-883. https://doi.org/10.1007/s10898-020-00955-3

90   **HUANG,Jianhui**, SI,Kehan and WU,Zhen,"Linear-Quadratic Mixed Stackelberg–Nash Stochastic Differential Game with Major–Minor Agents". Applied Mathematics and Optimization. 2020 Aug;84(3): p. 2445 - 2494. https://doi.org/10.1007/s00245-020-09713-z

91   BENSOUSSAN,Alain, FENG,Xinwei and **HUANG,Jianhui**,"Linear-quadratic-gaussian mean-field-game with partial observation and common noise". Mathematical Control and Related Fields. 2021 Mar;11(1): p. 23-46. https://doi.org/10.3934/MCRF.2020025

92   MENG,K. W., LI,M. H., YAO,W. F.# and **YANG,X. Q.**,"Lipschitz-like property relative to a set and the generalized Mordukhovich criterion". Mathematical Programming. 2020 Sep;189(1-2): p. 455 - 489. https://doi.org/10.1007/s10107-020-01568-0

93   LIU,Yanyan, MAO,Guangcai and **ZHAO,Xingqiu**,"Local asymptotic inference for nonparametric regression with censored survival data". Journal of Nonparametric Statistics. 2020 Oct;32(4): p. 1015-1028. https://doi.org/10.1080/10485252.2020.1837367

94   **HE,Daihai**, ZHAO,Shi, XU,Xiaoke, LIN,Qiangying, ZHUANG,Zian, CAO,Peihua, WANG,Maggie H., **LOU,Yijun**, XIAO,Li, WU,Ye and YANG,Lin,"Low dispersion in the infectiousness of COVID-19 cases implies difficulty in control". BMC Public Health. 2020 Dec;20(1): p. 1-4. 1558. https://doi.org/10.1186/s12889-020-09624-2

95   LAM,Kwok Fai, LEE,Chun Yin, **WONG,Kin Yau** and BANDYOPADHYAY,Dipankar,"Marginal analysis of current status data with informative cluster size using a class of semiparametric transformation cure models". Statistics in Medicine. 2021 May;40(10): p. 2400-2412. https://doi.org/10.1002/sim.8910

96   MUSA,Salihu Sabiu#, QURESHI,Sania, ZHAO,Shi, YUSUF,Abdullahi, MUSTAPHA,Umar Tasiu and **HE,Daihai**,"Mathematical modeling of COVID-19 epidemic with effect of awareness programs". Infectious Disease Modelling. 2021 Jan;6: p. 448-460. https://doi.org/10.1016/j.idm.2021.01.012

97   DU,Qiang, JU,Lili, **LI,Xiao** and **QIAO,Zhonghua**,"Maximum bound principles for a class of semilinear parabolic equations and exponential time-differencing Schemes". SIAM Review. 2021 May;63(2): p. 317-359. https://doi.org/10.1137/19M1243750

98   **FU,Guanxing** and HORST,Ulrich,"Mean-field leader-follower games with terminal state constraint". SIAM Journal on Control and Optimization. 2020 Jul;58(4): p. 2078-2113. https://doi.org/10.1137/19M1241878

99 XIONG,Jie, **XU,Zuo Quan** and ZHENG,Jiayu,"Mean–variance portfolio selection under partial information with drift uncertainty". Quantitative Finance. 2021 Apr;21(9): p. 1461-1473. https://doi.org/10.1080/14697688.2021.1889650

100 XIE,Tinghan#, FENG,Xinwei and **HUANG,Jianhui**,"Mixed Linear Quadratic Stochastic Differential Leader-Follower Game with Input Constraint". Applied Mathematics and Optimization. 2021 Apr;84(1): p. 215-251. https://doi.org/10.1007/s00245-021-09767-7

101 **GUO,Xin**, LI,Lexin and WU,Qiang,"Modeling interactive components by coordinate kernel polynomial models". Mathematical Foundations of Computing. 2020 Nov;3(4): p. 263-277. https://doi.org/10.3934/mfc.2020010

102 LIN,Qianying#, MUSA,Salihu S.#, ZHAO,Shi# and **HE,Daihai**,"Modeling the 2014–2015 Ebola Virus Disease Outbreaks in Sierra Leone, Guinea, and Liberia with Effect of High- and Low-risk Susceptible Individuals". Bulletin of Mathematical Biology. 2020 Aug;82(8): p. 82-102. 102. https://doi.org/10.1007/s11538-020-00779-y

103 CAI,Yongli, ZHAO,Shi, NIU,Yun, PENG,Zhihang, WANG,Kai, **HE,Daihai** and WANG,Weiming,"Modelling the effects of the contaminated environments on tuberculosis in Jiangsu, China". Journal of Theoretical Biology. 2021 Jan;508: p. 1-12. 110453. https://doi.org/10.1016/j.jtbi.2020.110453

104 FU,Qiang, ZHOU,Tian Yi and **GUO,Xin**,"Modified Poisson regression analysis of grouped and right-censored counts". Journal of the Royal Statistical Society. Series A: Statistics in Society. 2021 Apr: p. 1-21. https://doi.org/10.1111/rssa.12678

105 LIU,Jingzhen, LIN,Liyuan, **YIU,Ka Fai Cedric** and WEI,Jiaqin,"Non-exponential discounting portfolio management with habit formation". Mathematical Control and Related Fields. 2020 Dec;10(4): p. 761-783. https://doi.org/10.3934/mcrf.2020019

106 HONG,Guangyi, PENG,Hongyun, **WANG,Zhi An** and ZHU,Changjiang,"Nonlinear stability of phase transition steady states to a hyperbolic–parabolic system modeling vascular networks". Journal of the London Mathematical Society. 2020 Dec;103(4): p. 1480-1514. https://doi.org/10.1112/jlms.12415

107 JIN,Bangti and **ZHOU,Zhi**,"Numerical Estimation of a Diffusion Coefficient in Subdiffusion". SIAM Journal on Control and Optimization. 2021 Apr;59(2): p. 1466–1496. https://doi.org/10.1137/19M1295088

108 ZHANG,Zhengqi# and **ZHOU,Zhi**,"Numerical analysis of backward subdiffusion problems". Inverse Problems. 2020 Sep;36(10): p. 1-27. https://doi.org/10.1088/1361-6420/abaf3d

109 D'ELIA,Marta, DU,Qiang, GLUSA,Christian, GUNZBURGER,Max, TIAN,Xiaochuan and **ZHOU,Zhi**,"Numerical methods for nonlocal and fractional models". Acta Numerica. 2020 Nov;29: p. 1-124. https://doi.org/10.1017/s096249292000001x

110 CAO,Peihua, SONG,Ying, ZHUANG ZIAN, RAN,Jinjun, XU,Lin, GENG,Ying, HAN,Lefei, ZHAO,Shi, QIN,Jing, **HE,Daihai**, WU,Fengfu and YANG,Lin,"Obesity and COVID-19 in adult patients with diabetes". Diabetes. 2021 Feb;70(5): p. 1061-1069. https://doi.org/10.2337/db20-0671

111 XIE,Jie, ZHANG,Aonan, CAO,Ningping, XU,Huichao, ZHENG,Kaimin, POON,Yiu Tung, **SZE,Nung Sing**, XU,Ping, ZENG,Bei and ZHANG,Lijian,"Observing Geometry of Quantum States in a Three-Level System". Physical Review Letters. 2020 Oct;125(15): p. 1-7. 150401. https://doi.org/10.1103/PhysRevLett.125.150401

112 HOU,Qianqian, LIN,Tai Chia and **WANG,Zhi An**,"On a singularly perturbed semi-linear problem with robin boundary conditions". Discrete and Continuous Dynamical Systems - Series B. 2021 Jan;26(1): p. 401-414. https://doi.org/10.3934/dcdsb.2020083

113 **YUE,Man Chung**, KUHN,Daniel and WIESEMANN,Wolfram,"On linear optimization over Wasserstein balls". Mathematical Programming. 2021 Jun https://doi.org/10.1007/s10107-021-01673-8

114 **WANG,Zhi An** and XU,Jiao,"On the Lotka–Volterra competition system with dynamical resources and density-dependent diffusion". Journal of Mathematical Biology. 2021 Jan;82(1-2): p. 1-37. 7. https://doi.org/10.1007/s00285-021-01562-w

115 **ZHANG,Guofeng** and PAN,Yu,"On the dynamics of two photons interacting with a two-qubit coherent feedback network". Automatica. 2020 Jul;117: p. 1-13. 108978. https://doi.org/10.1016/j.automatica.2020.108978

116 JIN,Zhuo, LIAO,Huafu, YANG,Yue# and **YU,Xiang**,"Optimal dividend strategy for an insurance group with contagious default risk". Scandinavian Actuarial Journal. 2021 May;2021(4): p. 335-361. https://doi.org/10.1080/03461238.2020.1845231

117 BO,Lijun, LIAO,Huafu and **YU,Xiang**,"Optimal tracking portfolio with a ratcheting capital benchmark". SIAM Journal on Control and Optimization. 2021 Jun;59(3): p. 2346-2380. https://doi.org/10.1137/20M1348856

118 FENG,Zhi Guo, CHEN,Fei, CHEN,Lin and **YIU,Ka Fai Cedric**,"Optimality Analysis of a Class of Semi-infinite Programming Problems". Journal of Optimization Theory and Applications. 2020 Aug;186(2): p. 398-411. https://doi.org/10.1007/s10957-020-01708-8

119 FU,Qiang, **GUO,Xin** and LAND,Kenneth C.,"Optimizing Count Responses in Surveys: A Machine-learning Approach". Sociological Methods and Research. 2020 Aug;49(3): p. 637-671. https://doi.org/10.1177/0049124117747302

120 **LI,Xiao**, JU,Lili and HOANG,Thi-Thao-Phuong,"Overlapping domain decomposition based exponential time differencing methods for semilinear parabolic equations". BIT Numerical Mathematics. 2021 Mar;61(1): p. 1-36. https://doi.org/10.1007/s10543-020-00817-0

121 MENG,Kaiwen, YANG,Hongyu, **YANG,Xiaoqi** and WAI YU,Carisa Kwok,"Portfolio optimization under a minimax rule revisited". Optimization. 2021 May: p. 1-29. https://doi.org/10.1080/02331934.2021.1928665

122 RAN,Jinjun, ZHAO,Shi, ZHUANG,Zian, CHONG,Marc K.C., CAI,Yongli, CAO,Peihua, WANG,Kai, **LOU,Yijun**, WANG,Weiming, GAO,Daozhou, YANG,Lin, **HE,Daihai** and WANG,Maggie H.,"Quantifying the improvement in confirmation efficiency of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) during the early phase of the outbreak in Hong Kong in 2020". International Journal of Infectious Diseases. 2020 Jul;96: p. 284-287. https://doi.org/10.1016/j.ijid.2020.05.015

123 **TANG,Wenlu**, XIE,Jinhan, LIN,Yuanyuan and TANG,Niansheng,"Quantile Correlation-based Variable Selection". Journal of Business and Economic Statistics. 2021 Apr: p. 1-13. https://doi.org/10.1080/07350015.2021.1899932

124 WANG,Xiaoqiang#, GU,Lejia#, **LEE,Heung wing** and **ZHANG,Guofeng**,"Quantum context-aware recommendation systems based on tensor singular value decomposition". Quantum Information Processing. 2021 May;20(5): p. 1-32. 190. https://doi.org/10.1007/s11128-021-03131-y

125 CHOY,Bonnie Nga Kwan, NG,Alex Lap Ki, ZHU,Ming Ming, **LIU,Catherine Chunling**, XU,Sheng# and LAI,Jimmy Shiu Ming,"Randomized Control Trial on the Effectiveness of Collagen Cross-linking on Bullous Keratopathy". Cornea. 2020 Nov;39(11): p. 1341-1347. https://doi.org/10.1097/ICO.0000000000002395

126 TANG,Xiujuan, MUSA,Salihu S.#, ZHAO,Shi and **HE,Daihai**,"Reinfection or Reactivation of Severe Acute Respiratory Syndrome Coronavirus 2". Frontiers in Public Health. 2021 Jun;9: p. 1-14. 663045. https://doi.org/10.3389/fpubh.2021.663045

127 XIA,Zhi, YANG,Lin, LI,Na, NIE,Bo, WANG,Hong, XU,Hui and **HE,Daihai**,"Seasonal influenza activity in young children before the COVID-19 outbreak in Wuhan, China". Transboundary and Emerging Diseases. 2020 Nov;67(6): p. 2277-2279. https://doi.org/10.1111/tbed.13799

128 HE,Baihua, LIU,Yanyan, WU,Yuanshan and **ZHAO,Xingqiu**,"Semiparametric efficient estimation for additive hazards regression with case II interval-censored survival data". Lifetime Data Analysis. 2020 Oct;26(4): p. 708-730. https://doi.org/10.1007/s10985-020-09496-z

129 WANG,Bing Chang, **HUANG,Jianhui** and ZHANG,Ji Feng,"Social Optima in Robust Mean Field LQG Control". IEEE Transactions on Automatic Control. 2021 Apr;66(4): p. 1529-1544. 9097879. https://doi.org/10.1109/TAC.2020.2996189

130　FENG,Xinwei, **HUANG,Jianhui** and WANG,Shujun,"Social Optima of Backward Linear-Quadratic-Gaussian Mean-Field Teams". Applied Mathematics and Optimization. 2021 May;84(1): p. 651-694. https://doi.org/10.1007/s00245-021-09782-8

131　**HUANG,Jianhui**, WANG,Bing Chang and XIE,Tinghan#,"Social optima in leader-follower mean field linear quadratic control". ESAIM - Control, Optimisation and Calculus of Variations. 2021 Mar;27: p. 1-31. 2020056. https://doi.org/10.1051/cocv/2020056

132　**HUANG,Jianhui**, WANG,Bing Chang and YONG,Jiongmin,"Social optima in mean field linear-quadratic-Gaussian control with volatility uncertainty". SIAM Journal on Control and Optimization. 2021 Mar;59(2): p. 825-856. https://doi.org/10.1137/19M1306737

133　QIU,Chong, **YANG,Xiaoqi** and ZHOU,Yuying,"Solvable optimization problems involving a p-Laplacian type operator". Applicable Analysis. 2020 Nov: p. 1-18. https://doi.org/10.1080/00036811.2020.1842372

134　LI,Jingwei, **LI,Xiao**, JU,Lili and FENG,Xinlong,"Stabilized integrating factor Runge-Kutta method and unconditional preservation of maximum bound principle". SIAM Journal on Scientific Computing. 2021 May;43(3): p. A1780-A1802. https://doi.org/10.1137/20M1340678

135　**WANG,Zhi An** and XU,Xin,"Steady states and pattern formation of the density-suppressed motility model". IMA Journal of Applied Mathematics (Institute of Mathematics and Its Applications). 2021 Jun;86(3): p. 577-603. https://doi.org/10.1093/imamat/hxab006

136　**ZHANG,Guofeng**, PETERSEN,Ian R. and LI,Jinghao,"Structural Characterization of Linear Quantum Systems with Application to Back-Action Evading Measurement". IEEE Transactions on Automatic Control. 2020 Jul;65(7): p. 3157-3163. 8862949. https://doi.org/10.1109/TAC.2019.2946234

137　YAN,Xiaodong, YIN,Guosheng and **ZHAO,Xingqiu**,"Subgroup analysis in censored linear regression". Statistica Sinica. 2021 Apr;31(2): p. 1027-1054. https://doi.org/10.5705/ss.202018.0319

138　HU,Xiangbin#, **HUANG,Jian**, LIU,Li, **SUN,Defeng** and ZHAO,Xingqiu,"Subgroup analysis in the heterogeneous Cox model". Statistics in Medicine. 2021 Feb;40(3): p. 739-757. https://doi.org/10.1002/sim.8800

139　ZHANG,Bing, LIANG,Shiwen, WANG,Gang, ZHANG,Chi, CHEN,Cai, ZOU,Min, SHEN,Wei, LONG,Haoyu, **HE,Daihai**, SHU,Yuelong and DU,Xiangjun,"Synchronized nonpharmaceutical interventions for the control of COVID-19". Nonlinear Dynamics. 2021 May https://doi.org/10.1007/s11071-021-06505-0

140　**YU,Xiang**, ZHANG,Yuchong and ZHOU,Zhou,"Teamwise Mean Field Competitions". Applied Mathematics and Optimization. 2021 May;84(1): p. 903-942. https://doi.org/10.1007/s00245-021-09789-1

141 RAN,Jinjun, ZHAO,Shi, HAN,Lefei, CHONG,Marc K.C., QIU,Yulan, YANG,Yiwei, WANG,Jiayi, WU,Yushan, JAVANBAKHT,Mohammad, WANG,Maggie H. and **HE,Daihai**,"The changing patterns of COVID-19 transmissibility during the social unrest in the United States: A nationwide ecological study with a before-and-after comparison". One Health. 2021 Jun;12: p. 1-3. 100201. https://doi.org/10.1016/j.onehlt.2020.100201

142 LI,Wen Long, **ZHANG,Guofeng** and WU,Re Bing,"The dynamical model of flying-qubit control systems". IFAC-PapersOnLine. 2020 Nov 21st IFAC World Congress 2020.;53(2): p. 299-303. https://doi.org/10.1016/j.ifacol.2020.12.139

143 MAK,Man Kwong, **LEUNG,Chun Sing** and HARKO,Tiberiu,"The effects of the dark energy on the static Schrödinger-Newton system-An Adomian Decomposition Method and Padé approximants based approach". Modern Physics Letters A. 2021 Feb;36(6): p. 1-13. 2150038. https://doi.org/10.1142/S0217732321500383

144 LUO,Xiao Feng, JIN,Zhen, **HE,Daihai** and LI,Li,"The impact of contact patterns of sexual networks on Zika virus spread". Applied Mathematics and Computation. 2021 Mar;393: p. 1-21. 125765. https://doi.org/10.1016/j.amc.2020.125765

145 JIN,Hai Yang and **WANG,Zhi An**,"The keller-segel system with logistic growth and signal-dependent motility". Discrete and Continuous Dynamical Systems - Series B. 2021 Jun;26(6): p. 3023-3041. https://doi.org/10.3934/dcdsb.2020218

146 ZHUANG ,Zian, CAO,Peihua, ZHAO,Shi, HAN,Lefei, **HE,Daihai** and YANG,Lin,"The shortage of hospital beds for COVID-19 and non-COVID-19 patients during the lockdown of Wuhan, China". Annals of Translational Medicine. 2021 Feb;9(3): p. 1-9. https://doi.org/10.21037/atm-20-5248

147 TAO,Jun, ZHANG,Xiaoyu, ZHANG,Xingyue, ZHAO,Shi, YANG,Lin, **HE,Daihai** and LI,Huaichen,"The time serial distribution and influencing factors of asymptomatic COVID-19 cases in Hong Kong". One Health. 2020 Dec;10: p. 1-3. 100166. https://doi.org/10.1016/j.onehlt.2020.100166

148 FU,Qiang, **GUO,Xin**, JEON,Sun Young, REITHER,Eric N., ZANG,Emma and LAND,Kenneth C.,"The uses and abuses of an age-period-cohort method". Mathematical Foundations of Computing. 2021 Feb;4(1): p. 45-59. https://doi.org/10.3934/mfc.2021001

149 WANG,Lichun, LV,Qingquan, ZHANG,Xiaofei, **JIANG,Binyan**, LIU,Enhe, XIAO,Chaoxing, YU,Xinyang#, YANG,Chunhua and CHEN,Lei,"The utility of MEWS for predicting the mortality in the elderly adults with COVID-19". PeerJ. 2020 Sep;8: p. 1-13. e10018. https://doi.org/10.7717/peerj.10018

150 LI,Yiteng, **QIAO,Zhonghua**, SUN,Shuyu and ZHANG,Tao,"Thermodynamic modeling of CO2 solubility in saline water using NVT flash with the cubic-Plus-association equation of state". Fluid Phase Equilibria. 2020 Oct;520: p. 1-13. 112657. https://doi.org/10.1016/j.fluid.2020.112657

151 DU,Qiang, YANG,Jiang and **ZHOU,Zhi**,"Time-fractional Allen-Cahn equations: analysis and numerical methods". Journal of Scientific Computing. 2020 Nov;85(2): p. 1-30. 42. https://doi.org/10.1007/s10915-020-01351-5

152 LIU,Kai, HE,Mu, ZHUANG,Zian, **HE,Daihai** and LI,Huaichen,"Unexpected positive correlation between human development index and risk of infections and deaths of COVID-19 in Italy". One Health. 2020 Dec;10: p. 1-3. 100174. https://doi.org/10.1016/j.onehlt.2020.100174

153 DENG,Shuoqing, TAN,Xiaolu and **YU,Xiang**,"Utility maximization with proportional transaction costs under model uncertainty". Mathematics of Operations Research. 2020 Nov;45(4): p. 1210-1236. https://doi.org/10.1287/MOOR.2019.1029

154 LEYKEKHMAN,Dmitriy and **LI,Buyang**,"Weak discrete maximum principle of finite element methods in convex polyhedra". Mathematics of Computation. 2021 Jan;90(327): p. 1-18. https://doi.org/10.1090/mcom/3560

155 **LI,Buyang**, WANG,Hong and WANG,Jilu,"Well-posedness and numerical approximation of a fractional diffusion equation with a nonlinear variable order". ESAIM: Mathematical Modelling and Numerical Analysis. 2021 Jan;55(1): p. 171-207. https://doi.org/10.1051/m2an/2020072

Refereed conference paper

156 NG,Ho Cheung, LIU,Shuanglong, COLEMAN,Izaak, CHU,Ringo S.W., **YUE,Man Chung** and LUK,Wayne,"Acceleration of Short Read Alignment with Runtime Reconfiguration". 2020 Dec 2020 International Conference on Field-Programmable Technology, ICFPT 2020. Proceedings - 2020 International Conference on Field-Programmable Technology, ICFPT 2020 Institute of Electrical and Electronics Engineers Inc.: p. 256-262. 9415539. https://doi.org/10.1109/ICFPT51103.2020.00044

157 DONG,Zhiyuan, **ZHANG,Guofeng** and WU,Ai Guo,"Atomic excitation for a two-level system driven by three input photons". 2020 Oct 2020 IEEE International Conference on Networking, Sensing and Control, ICNSC 2020. 2020 IEEE International Conference on Networking, Sensing and Control, ICNSC 2020 Institute of Electrical and Electronics Engineers Inc.: p. 1-5. 9238064. https://doi.org/10.1109/ICNSC48988.2020.9238064

158 WANG,Xiang, HUANG,Tinglin, WANG,Dingxian, **YUAN,Yancheng**, LIU,Zhenguang, HE,Xiangnan and CHUA,Tat-Seng,"Learning Intents behind Interactions with Knowledge Graph for Recommendation". 2021 Apr The Web Conference 2021 - Proceedings of the World Wide Web Conference, WWW 2021 Association for Computing Machinery (ACM): p. 878–887. https://doi.org/10.1145/3442381.3450133

 # Student (all levels) in the same Department and Cost Centre