



Jing-Hua Yang (杨晶华)

Personal information

Surname(s) / First name(s): Jing-Hua, Yang
Native place: Shanxi
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Nationality(-ies): China
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Education and training

- 09/2020 – Today Macau University of Science and Technology (MUST)
PH. D. student in Artificial Intelligence (Supervisor: Prof. Hong-Ning Dai and Prof. Chuan Chen)
- Participate in Academic Research Scholarship (PGS) (2020-2023)
- 07/2019 – 07/2020 Assistant teacher, Chengdu College of University of Electronic Science and Technology of China
- 09/2016 - 06/2019 University of Electronic Science and Technology of China (UESTC)
M. S. student in Applied Mathematics (Supervisor: Prof. Xi-Le Zhao)
- First-class Postgraduate Scholarship (2018)
 - Second-class Postgraduate Scholarship (2017)
- 09/2012 - 07/2016 Taiyuan Normal University
B. S. student in Mathematics and Applied Mathematics
- National Encouragement Scholarship (2015)
 - First-class bachelor scholarship (2014)

Research interests

Data Mining, image processing, deep learning, tensor analysis, machine learning algorithm.

Publication

1. Xi-Le Zhao*, **Jing-Hua Yang***, Tian-Hui Ma, Tai-Xiang Jiang, Michael K. Ng, Tensor Completion via Complementary Global, Local, and Nonlocal Priors, **IEEE Transactions on Image Processing**, 31 (2022) 984-999.
2. **Jing-Hua Yang**, Xi-Le Zhao, Jin-Jin Mei, Si Wang, Tian-Hui Ma, Ting-Zhu Huang, Total variation and high-order total variation adaptive model for restoring blurred images with Cauchy noise, **Computers and Mathematics with Application**, 77 (2019) 1255-1272, cited by 31.



3. **Jing-Hua Yang**, Xi-Le Zhao, Tian-Hui Ma, Yong Chen, Ting-Zhu Huang, Meng Ding, Remote sensing image destriping using unidirectional hybrid total variation and nonconvex low-rank regularization, **Journal of Computational and Applied Mathematics**, 363 (2020) 124-144, **cited by 73**.
4. **Jing-Hua Yang**, Xi-Le Zhao, Teng-Yu Ji, Ting-Zhu Huang, Low-rank tensor train for tensor robust principal component analysis, **Applied Mathematics and Computation**, 367 (2020), 124783, **cited by 56**.
5. **Jing-Hua Yang**, Xi-Le Zhao, Tian-Hui Ma, Meng Ding, Ting-Zhu Huang, Tensor train rank minimization with hybrid smoothness regularization for visual data recovery, **Applied Mathematical Modelling**, 81 (2020), 711-726.
6. Meng Ding, Ting-Zhu Huang, Teng-Yu Ji, Xi-Le Zhao, **Jing-Hua Yang**, Low-rank tensor completion using matrix factorization based on tensor train rank and total variation, **Journal of Scientific Computing**, 81 (2019), 941-96, **cited by 31**.
7. Meng Ding, Ting-Zhu Huang, Tian-Hui Ma, Xi-Le Zhao, **Jing-Hua Yang**, Cauchy noise removal using group-based low-rank prior, **Applied Mathematics and Computation**, 372 (2020), 124971.

Scientific project

- Macao Science and Technology Development Fund under Macao Funding Scheme for Key Research & Development Projects (0025/2019/AKP)
- The tensor optimization models and high-performance algorithms for hyperspectral image restoration, National Natural Science Foundation of China (NSFC), (61876203)
- Sparse optimization models and high-performance algorithms for image reconstruction in compressed sensing, National Natural Science Foundation of China (NSFC), (61772003)

Academic activity

07/2017 - 08/2017	2017 HIT International Summer School on Artificial Intelligence Harbin Institute of Technology
Courses: big data analysis, machine learning, artificial intelligence, compressed sensing, etc.	
10/05/2019 - 12/05/2019	International Conference of Union of Mathematical Imaging 2019 North China Electric Power University
05/12/2020	The 2nd Conference on Mathematical and Physical Foundations of Artificial Intelligence Oral Report: 30 minutes