**Jing-Hua Yang (杨晶华)**

**Personal information**

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| **Surname(s) / First name(s): Native place:** | Jing-Hua, Yang  Shanxi |
| **Telephone(s):** | +86 13568974667 |
| **Email(s):** | [yangjinghua110@126.com](mailto:dingmeng56@163.com) |
| **Nationality(-ies):** | China |
| **Date of birth:** | 02-07-1994 |

**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**

**Scientific project**

* Macao Science and Technology Development Fund under Macao Funding Scheme for Key R \& D 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)

**Scientific project**

**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

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