Wenwu GONG PhD Candidate

RESEARCH KEYWORDS	☐ Tucker-based Low-rank Model☐ Signal Processing	☐ Tensor Learning☐ Image Processing
	□ Optimization	□ Deep Tensor Computation
CONTACT INFORMATION	<pre> 12031299@mail.sustech.edu.cn https://gongwenwuu.github.io/ github.com/GongWenwuu Google Scholar </pre>	SUSTech HomePage
Biography	I plan to do a visiting postgraduate internship (MATH) at HKUST in Oct. 2023. In the Summer of 2024, I will finish my Ph.D. from Southern University of Science and Technology (SUSTech), where my research focuses on Tensor Learning and Algorithms and Mathematical Theory for Data Science .	
EDUCATION	⚠ Southern University of Science and Technology	Shenzhen Sep. 2020 - Present.
	 Affiliation: Department of Statistics and Data Science Thesis: Low-Rank Tensor Learning: Methods, Algorithms, and Applications 	
	 	Shenzhen Sep. 2018 - Sep. 2020
	 	Nanchang Sep. 2014 - May. 2018 and Computer Sciences
Honours and Awards	 National Scholarships International Training Program of Guangdong Province Innovative Practice Scholarship National Postgraduate Statistical Modeling Competition 	Oct. 2023 June 2023 RMB 10,000 May 2021 Second Prize Dec. 2020
PROJECTS	Granted Research Funding:Impact of different control policies for COVID-19 outbreak on the tertiary sector	
	 Main contributors: Wenwu Gong (principal investigator), Lili Yang (supervisor) Funding: Innovation and Entrepreneurship Fund for Graduate Students by the Graduate School of SUSTech (Y01621803) RMB 82,000 	
	Open-source Research Projects: • ♠ LRTL Methods and Their Applications: The collection of state-of-the-art papers focus on low-rank tensor learning and its applications, including imaging and traffic data.	
TUTORIALS	• Probability Theory and Mathematical Statistics	Sep. 2019 - May 2021
TA		NF 2022 T 2222

 \bullet Tensor Decomposition and Its Applications

Mar. 2023 - June 2023

Publications Preprints & Under Review



2. Wenwu Gong, Zhejun Huang, Lili Yang (2023). ELST: A Tucker-based prior modeling framework for tensor completion.

Under review

 Wenwu Gong, Zhejun Huang, Lili Yang (2023). Spatiotemporal regularized Tucker decomposition approach for traffic data imputation. arXiv:2305.06563

Journal Papers

Wenwu Gong, Zhejun Huang, Lili Yang (2023). Accurate regularized Tucker decomposition for image restoration. Applied Mathematical Modeling. 123 (11): 75-86.
 JCR-Q1 IF: 5 Top-tier https://doi.org/10.1016/j.apm.2023.06.031

Conference Papers

- ICASSP 2024: Wenwu Gong, Zhejun Huang, Lili Yang (2024). Enhanced low-rank and sparse Tucker decomposition for image completion. Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing, Seoul, Korea, 2024.
 EI CCF B
- ITSC 2023: Wenwu Gong, Zhejun Huang, Lili Yang (2023). LSPTD: Low-rank and spatiotemporal priors enhanced Tucker decomposition for internet traffic data imputation (presentation only). Proceedings of the IEEE Conference on Intelligent Transportation Systems, Bilbao, Spain, 2023.
 Level A

Other Papers

- Wenwu Gong, Jie Jiang, and Lili Yang. (2022). Dynamic risk assessment of compound hazards based on VFS-IEM-IDM: A case study of Typhoon-Rainstorm hazards in Shenzhen, China. Natural Hazards and Earth System Sciences. 22(10): 3271-3283.
 JCR-Q1 IF: 4.6 https://doi.org/10.5194/nhess-22-3271-2022
- Fanyu Meng, Wenwu Gong, Jun Liang, Xian Li, Yiping Zeng and Lili Yang. (2021). Impact of different control policies for COVID-19 outbreak on the air transportation industry:
 A comparison between China, the U.S. and Singapore. PLoS One. 16(3): e0248361.

 JCR-Q2 IF: 3.7 https://doi.org/10.1371/journal.pone.0248361