Shu LI

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Education & Research Experience

PhD in Computer Science

2023-Present ENS, PSL University & INRIA, Paris. Supervisor: Ana Bušić

Thesis: Learning in dynamic matching models

MSc in Mathematics

2020–2023 Shandong University of Technology. Supervisor: Jianfeng Wang

Thesis: On the Matrix-Tree Theorems of Graphs. Defended: May 2023.

BSc in Mathematics and Applied Mathematics

2015–2019 Shandong University of Technology

Publications & Preprints

Journals

- Yet more elementary proof of Matrix-Tree Theorem for signed graphs S. Li and J. Wang. Algebra Colloquium. DOI:10.1142/S1005386723000408
- On Graphs with Small Ranks: Old and New Results
 S. Li, Z. Stanic and J. Wang. Advances in Mathematics(China). DOI:10.11845/sxjz.2022006a
- Matrix-Tree Theorem of digraphs via signless Laplacians
 S. Li, L. Lu, J. Wang and W. Wang. Linear Algebra and its Application. DOI:10.1016/j.laa.2022.10.027
- 2017 Equivalence Relation and Function S. Li and H. Li.

Preprints

A graph discretization of vector Laplace operator

S. Li, L. Lu and J. Wang. arXiv:2312.05754

Matrix-Tree Theorems for Complex Unit Gain Networks

S. Li, J. Wang, M. Dehmer and M. Brunetti.

Conference Presentations & Seminars

2024 A Brief Survey on the Matrix-Tree Theorems of Graphs

Argo Seminar Paris, France

2023 On the Matrix-Tree Theorems of Graphs

The Third SDUT Postgraduate Academic Forum Zibo, China

2022 On graphs with small ranks: old and new results

The 10th Int'l Combinatorics and Graph Theory Conference (CMS-CGT2022) Harbin, China

2022 A Survey on Matrix-Tree Theorem of Graphs

The 9th Int'l Symposium on Graph Theory and Combinatorial Algorithms (ORSC-GTCA2022) Hangzhou, China

Academic Service

Editor

2025-Present Journal of Advances in Engineering and Technology

Peer review

IEEE internet of things magazine

Asian Journal of Mathematics and Computer Research

2025 ICECET, GPS, ICIC

Professional Memberships

2024-Present Société Mathématique de France(SMF) 2024-Present Société informatique de France(SiF)

2024-Present Société de Mathématiques Appliquées et Industrielles (SMAI)