

Shu Li

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Education & Research Experience

2023–Present

PhD in Computer Science

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

Thesis: Learning in dynamic matching models

2020–2023

MSc in Mathematics

Shandong University of Technology. Supervisor: Jianfeng Wang

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

2015–2019

BSc in Mathematics and Applied Mathematics

Shandong University of Technology

Publications & Preprints

Journals

2023

Yet more elementary proof of Matrix-Tree Theorem for signed graphs

S. Li and J. Wang. Algebra Colloquium, 30: 3(2023) 493-502.

2023

On Graphs with Small Ranks: Old and New Results

S. Li, Z. Stanic and J. Wang. Advances in Mathematics(China), 52(3) 385-405.

2003

Matrix-Tree Theorem of digraphs via signless Laplacians

S. Li, L. Lu, J. Wang and W. Wang. Linear Algebra and its Application, 658(2023) 32–48.

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.

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

Editorial & Review Activities

Editor

2025-Present Journal of Advances in Engineering and Technology

Peer review

IEEE internet of things magazine

Asian Journal of Mathematics and Computer Research