



Journal of Combinatorics, Graph Theory and Applications

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Call for Papers

Special Issue on Algebraic Graph Theory and Combinatorics

1. Brief Introduction

Algebraic Graph Theory and Combinatorics represent a dynamic and rapidly evolving interface of discrete mathematics, algebra, and theoretical computer science. This area leverages algebraic structures—such as groups, rings, and matrices—to investigate structural and spectral properties of graphs and combinatorial objects. Recent developments have demonstrated profound applications in chemistry, network science, coding theory, optimization, and quantum computing.

2. List of Topics

Spectral Graph Theory	Eigenvalues/vectors of matrices associated with graphs.; Graph energy; Spectral characterization.
Algebraic Methods	Group actions on graphs, Automorphism groups, Cayley graphs, and Association schemes.
Graph Invariants	Distance-based (Wiener, Mostar, Szeged) and Degree-based indices; Chemical applications.
Combinatorial Structures	Combinatorial identities, enumerative combinatorics, and generating functions.
Graph Operations	Cartesian, tensor, and lexicographic products; Derived structures.
Applications	Mathematical chemistry, Network analysis, Coding theory, and Cryptography.

3. Important Dates

- **Submission Deadline:** 30 September 2026
- **First Review Decision:** 30 November 2026
- **Revised Manuscript Submission:** 15 January 2027
- **Final Acceptance Notification:** 28 February 2027

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- **Publication of Special Issue:** April 2027

4. Submission Guidelines

- Manuscripts must present original, unpublished work.
 - Rigorous double-blind peer review process.
- Preparation: Use LaTeX with standard journal templates.
- Include: Title, abstract (150–250 words), keywords, and MSC 2020 codes.
- Length: Research articles (10–25 pages), Survey papers (Up to 40 pages).
- Process: Submit via the online system, selecting the specific Special Issue title.

Contact for Queries

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