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Algebraic Structures and Graph Theory, 2nd Edition

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Message from the Guest Editors

Due to the success of the previous Special Issue, we are pleased to announce a second edition of the Special Issue on Algebraic Structures and Graph Theory.

Connections between algebraic structure and graph theories have been established in order to solve some problems in one theory with the help of the tools existing in the other one, emphasizing their remarkable properties and providing new methods for problem solving. One very well-known example is the contribution by Artur Cayley, who defined the concept of a group in 1854 (the composition table of the operation takes his name, i.e., the Cayley table), and in 1878, described the structure of a group using a Cayley graph. There are many ways to define an algebraic structure (as a group, ring, hypergroup, lattice, etc.), and they usually start with a graph.

This Special Issue accepts original, high-quality contributions, where a connection between algebraic structures and graph theory is clearly presented. New theoretical aspects, as well as practical applications representing current research directions on this topic, are welcome. We also invite authors to submit review papers on the aforementioned topic.











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Message from the Editor-in-Chief

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