



Discrete Mathematics, Graph Theory and Applications

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Message from the Guest Editors

By the middle of the 20th century, a new kind of mathematics, quite unlike the continuous mathematics of calculus, became prominent, called discrete mathematics. Discrete mathematics primarily became the study of the mathematical properties of sets, systems and structures having a countable collection of elements. The growing popularity of and interest in discrete mathematics was greatly influenced by its applications to areas such as computer science, engineering, communication and transportation, as well as its emergence as a fascinating area of mathematics....

Graphs are discrete structures consisting of vertices and edges that connect these vertices. Problems in almost every conceivable discipline can be solved using graph models. One of the fascinating branches of graph theory that has attracted the attention of researchers all over the world is spectral graph theory.

The theory of graphs is further extended to networks and systems, where the vertices can represent different entities in nature, society, and technology, and the links between them are modeled by edges.





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Message from the Editor-in-Chief

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