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Abstract:

Graphs are used to model different types of relationships and processes. Information system, biological, social, and physical systems, many problems are represented by graphs. One application of graph theory is that it provides the same modeling for many different problems. Although graphs work with computational methods, linear algebraic structures, and mathematical combinations, graphs and models often involve real-world applications.

Graphs represent networks of computing devices, data organization, communication, computational flow. Today, graphs can not represent many systems properly due to uncertainty, and this became the impetus for defining fuzzy graphs and hyper graphs. Fuzzy graphs and hyper graphs have many applications in various fields including networking, data mining, scheduling, image segmentation, clustering, imaging, communication, scheduling and optimization and decision making.

The purpose of this meeting is to bring together researchers working in the field of (hyper) graph and fuzzy (hyper) graph to discuss new results and problems, both in theory and in applications, ie to integrate some recent theoretical and experimental contributions that Reflects current results in these areas.

Keywords: Graph, Hyper Graph, Fuzzy Graph, Intuitionistic Fuzzy Graph, Soft Graph, Bipolar Fuzzy Graph, Decision Making, Optimization, Multi-Objective Decision Making.