Special Issue

Dynamic Complex Networks: Models, Algorithms, and Applications

Message from the Guest Editor

Dynamical complex networks (DCNs) are ubiquitous as models for many real-world systems whose network properties evolve in time. The present Special Issue is devoted to the network evolution theory, making use of an analogy with the evolutionary models of stabilizing and diversifying selection. In the proposed Special Issue, we aim to organize a broad discussion on network evolution theory and its applications in studies of real-world complex systems. The topics of this Special Issue include, but are not limited to:

- dynamic complex networks
- statistics of long walks
- graph structural modifications
- stability and synchronization in networks
- entropic force and pressure
- graph node fugacity
- graph node navigability
- graph navigation
- delocalization-localization

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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