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- Theories, algorithms and programs of network analysis
- Evolution, dynamics, optimization and control of biological networks
- Network construction, link prediction
- Network topology, topological analysis, relationship between topological structure and network functions, sensitivity analysis, network robustness and stability
- Network flow analysis
- Design and formulation of biological networks
- Ecological networks, food webs and natural equilibrium, co-evolution, co-extinction, biodiversity conservation
- Physiological networks, social networks, epidemiological networks
- Network regulation of metabolic processes, human diseases and ecological systems
- System complexity, self-organization, emergence of biological systems, agent-based modeling, neural network modeling, and other network-based modeling, etc.
- Big data analytics of biological networks

We are also interested in short communications that clearly address a specific issue or completely present a new ecological network, food web, or metabolic or gene network, etc.

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Editorial Office: networkbiology@iaees.org

Publisher: International Academy of Ecology and Environmental Sciences
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