# BIOSYSTEMS

## Description

*BioSystems* encourages experimental, computational, and theoretical articles that link biology, evolutionary thinking, and the information processing sciences. The link areas form a circle that encompasses the fundamental nature of biological information processing, computational modeling of complex biological systems, evolutionary models of computation, the application of biological principles to the design of novel computing systems, and the use of biomolecular materials to synthesize artificial systems that capture essential principles of natural biological information processing.

The categories and topics listed below are examples, the editors will be happy to comment on the relevance of other topics:

### Molecular Evolution
Self-organizing and self-replicating systems
Origins and evolution of the genetic mechanism

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Cellular control
Neuromolecular computing
Biological adaptability
Molecular computing technologies

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Simulation of genetic and ecological systems
Applications (neural nets, machine learning, robotics)

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AUDIENCE

Biomathematicians, cyberneticians, mathematical modellers, zoologists, molecular and cellular biologists, biochemists, researchers in molecular and cellular evolution, pre-biotic systems, origins of life.

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BioSystems encourages experimental, computational, and theoretical articles that link biology, evolutionary thinking, and the information processing sciences. The link areas form a circle that encompasses the fundamental nature of biological information processing, computational modeling of complex biological systems, evolutionary models of computation, the application of biological principles to the design of novel computing systems, and the use of biomolecular materials to synthesize artificial systems that capture essential principles of natural biological information processing.

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