**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:

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Origins and evolution of the genetic mechanism

**Biological Information Processing**  
Molecular recognition  
Cellular control  
Neuromolecular computing  
Biological adaptability  
Molecular computing technologies

**Evolutionary Systems**  
Stochastic evolutionary algorithms  
Evolutionary optimization  
Simulation of genetic and ecological systems  
Applications (neural nets, machine learning, robotics)

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AUDIENCE

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INTRODUCTION

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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