

Computational Ecology and Software

The Computational Ecology and Software (CES) is an open access, peer/open reviewed online journal that considers scientific articles in all different areas of computational ecology. It is the transactions of the International Society of Computational Ecology. The journal is concerned with the ecological researches, constructions and applications of theories and methods of computational sciences including computational mathematics, computational statistics and computer science. It features the simulation, approximation, prediction, recognition, and classification of ecological issues. Intensive computation is one of the major stresses of the journal. The journal welcomes research articles, short communications, review articles, perspectives, and book reviews. The journal also supports the activities of the International Society of Computational Ecology. The topics to be covered by CES include, but are not limited to:

- Computation intensive methods, numerical and optimization methods, differential and difference equation modeling and simulation, prediction, recognition, classification, statistical computation (Bayesian computing, randomization, bootstrapping, Monte Carlo techniques, stochastic process, etc.), agent-based modeling, individual-based modeling, artificial neural networks, knowledge based systems, machine learning, genetic algorithms, data exploration, network analysis and computation, databases, ecological modeling and computation using Geographical Information Systems, satellite imagery, and other computation intensive theories and methods.
- Artificial ecosystems, artificial life, complexity of ecosystems and virtual reality.
- The development, evaluation and validation of software and algorithms for computational ecology. The development and evaluation of apparatus, instruments and machines for ecological and environmental analysis, investigation and monitoring based on the software of computational ecology.
- Methodological applications of computational ecology in the researches of ecology and environmental sciences.

Authors can submit their works to the email box of this journal, ces@iaees.org and (or) wjzhang@iaees.org. All manuscripts submitted to CES must be previously unpublished and may not be considered for publication elsewhere at any time during review period of this journal.

In addition to free submissions from authors around the world, special issues are also accepted. The organizer of a special issue can collect submissions (yielded from a research project, a research group, etc.) on a specific topic, or submissions of a conference for publication of special issue.

Editorial Office: ces@iaees.org

Publisher: International Academy of Ecology and Environmental Sciences

Address: Unit 3, 6/F., Kam Hon Industrial Building, 8 Wang Kwun Road, Kowloon Bay, Hong Kong

Tel: 00852-2138 6086

Fax: 00852-3069 1955

E-mail: office@iaees.org

Computational Ecology and Software

ISSN 2220-721X

Volume 5, Number 1, 1 March 2015

Articles

Generating and prioritizing optimal paths using ant colony optimization

Mukesh Mann, Om Prakash Sangwan 1-15

Turing and Non-Turing patterns in diffusive plankton model

N. K. Thaku, R. Gupta, R. K. Upadhyay 16-27

Chaotic dynamics in a discrete-time predator-prey food chain

S. M. Sohel Rana 28-47

Local stability of an open-access anchovy fishery model

M. N. Qureshi, A. Q. Khan 48-62

Incorporating climatic change into ecological connectivity: Climatic Flow Connectivity

Alessandro Ferrarini 63-68

Towards cardinality-based service feature diagrams

Ghulam Mustafa Assad, Muhammad Naeem, Hafiz Abdul Wahab 69-76

Semantics of the maturity model for feature oriented domain analysis

M. Javed, M. Naeem, H. A. Wahab 77-112

Impact of Open Source software on the environmental protection

D. Viduka, A. Basicv 113-118



IAEES

<http://www.iaees.org/>