Computational Ecology and Software

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- 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.
- Big data analytics of ecological and environmental data, meta-analysis, casual inference, Bayesian inference, etc.

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