Accepted Manuscript

Predicting long-term population dynamics with bagging and boosting of process-based models

Nikola Simidjievski, Ljupčo Todorovski, Sašo Džeroski

PII:S0957-4174(15)00464-9DOI:10.1016/j.eswa.2015.07.004Reference:ESWA 10139

To appear in:

Expert Systems With Applications

Received date:20 February 2015Revised date:23 June 2015Accepted date:5 July 2015

Please cite this article as: Nikola Simidjievski, Ljupčo Todorovski, Sašo Džeroski, Predicting long-term population dynamics with bagging and boosting of process-based models, *Expert Systems With Applications* (2015), doi: 10.1016/j.eswa.2015.07.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

0

- A novel methodology for learning ensembles of process-based models for long-term predictions
- We adapt the methods of bagging and boosting to the task of modeling dynamic systems
- We identify the design decisions for learning such ensembles
- We apply and evaluate the performance of the developed algorithms on modeling tasks of population dynamics in aquatic ecosystems
- Ensembles of PBMs have better predictive performance than a single process-based model

Download English Version:

https://daneshyari.com/en/article/10321766

Download Persian Version:

https://daneshyari.com/article/10321766

Daneshyari.com