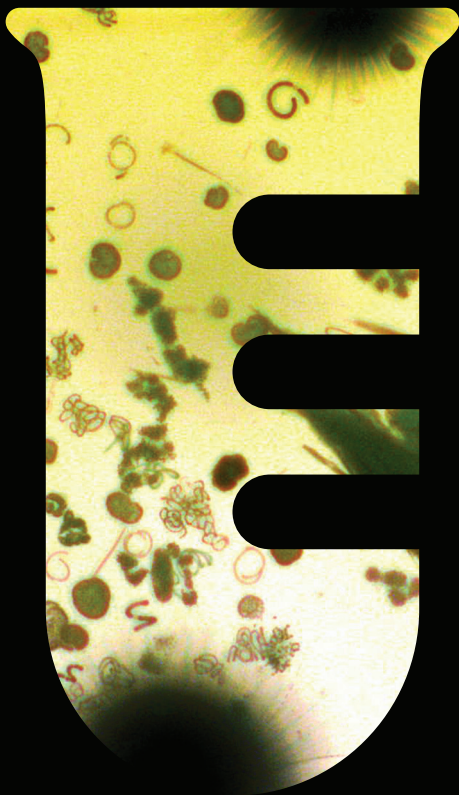


MODAL

MODELS FOR PREDICTING ALGAE BLOOMS



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MODAL

MODELS FOR PREDICTING ALGAE BLOOMS

The occurrence of abnormal amounts of certain species of phytoplankton may be associated with eutrophication, which can lead to serious risks in terms of public health, particularly when these phenomena occur in places where drinking water is collected. Forecasting these phenomena in advance is essential for taking preventive actions and thus avoid undesirable consequences.

INESC TEC has applied, compared and adapted several modelling techniques to the problem of predicting harmful algae blooms in the hydrographical bay of river Douro, namely in the reservoir of the Crestuma-Lever dam.

This is a prediction problem with a strong social and economic impact on the metropolitan area of Porto because most of the drinking water in this region comes from this dam.

RESULTS

- Several algorithms developed for forecasting algae blooms
- Software for monitoring and forecasting algae blooms



INESC TEC
TECHNOLOGY & SCIENCE
ASSOCIATE LABORATORY
PORTUGAL

CAMPUS DA FEUP
R DR. ROBERTO FRIAS 378
4200 - 465 PORTO
PORTUGAL

T +351 222 094 000
F +351 222 094 050
www@inescporto.pt
www.inescporto.pt

