



BEAT: An Open-Science Web Platform



André Anjos, Laurent El-Shafey, and Sébastien Marcel

Idiap Research Institute, Switzerland | Contact: beat.support@idiap.ch

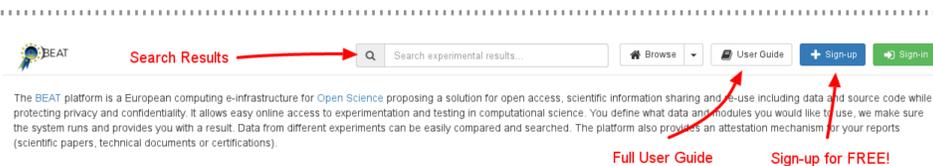
Try now! <https://beat-eu.org/platform/signup>



Reproducibility: Why is it so hard?

- Some datasets are not distributable (e.g. forensics data); others may be large and cumbersome to handle
- Limited computing resources can be a problem, even if you have all the data in the world
- Software sharing and remote deployment (to enable others to reproduce your results) requires constant maintenance
- Software maintenance and development is challenging and costly
- No standard for mixing computer-based experiments and scientific reports
- It may be labour-intensive to verify computer-based experiments are repeatable or done in the same conditions across different reports
- It is not straightforward to find implementations of baseline experiments in public domain; when available, the implementation may not be compatible with your computing environment

Accessible: Web platform



The BEAT platform is a European computing e-infrastructure for Open Science proposing a solution for open access, scientific information sharing and re-use including data and source code while protecting privacy and confidentiality. It allows easy online access to experimentation and testing in computational science. You define what data and modules you would like to use, we make sure the system runs and provides you with a result. Data from different experiments can be easily compared and searched. The platform also provides an attestation mechanism for your reports (scientific papers, technical documents or certifications).

BEAT makes reproducibility EASY

The BEAT platform is a European computing e-infrastructure for Open Science proposing a solution for open access, sharing and re-use of scientific information including data and source code, while protecting privacy and confidentiality. It allows easy online access to experimentation and testing. You define what data and modules you would like to use, BEAT makes sure the system runs and provides you with a result. Data from different experiments can be easily compared and searched. The platform also provides an attestation mechanism for your reports (scientific papers, technical documents or certifications).

Private and Easy: Select Database/Protocol, Resources and Parameters in a Single Window

Assurance: certify and reproduce any time

Intuitive: Connect blocks to define toolchains

Productive: Search and Monitor current trends

Report and Share: build beautiful virtual reports