evoapplications *

**27th European Conference
on the Applications of Evolutionary
and bio-inspired Computation**

part of **evo*2024**
www.evostar.org

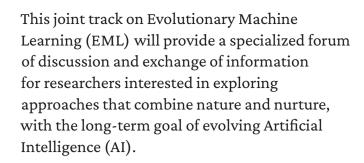Aberystwyth, Wales, UK
3 — 5 April 2024

eurogp *

**27th European Conference
on Genetic Programming**

evoapps* + eurogp*
special joint track on
Evolutionary Machine Learning

This joint track on Evolutionary Machine Learning (EML) will provide a specialized forum of discussion and exchange of information for researchers interested in exploring approaches that combine nature and nurture, with the long-term goal of evolving Artificial Intelligence (AI).

In response to the growing interest in the area, and consequent advances of the state-of-the-art, the special session covers theoretical and practical advances on the combination of Evolutionary Computation (EC) and Machine Learning (ML) techniques.

Topics of interest include, but are not limited to:

* EC as an ML technique: Using EC to solve typical ML tasks such as Classification or Clustering
* EC applied ML algorithms: Neuroevolution, Feature Selection, Feature Engineering, Evolutionary Adversarial Models
* ML applied to EC: Surrogate-model design by ML for EC, Learning Problem Structure, ML for Diversity, Designing Search Strategies, Predicting Promising Regions, Using ML to Decrease Computational Effort
* Real world applications issues: EC for Fairness, Robustness, Trustworthiness and Explainability; Green EML
* Emerging topics: EC for AutoML; EC for Transfer Learning; EC for Multitask Learning; Evolving Learning Functions, Neurons and Linkage; EC for Verification and Validation of ML

Submission deadline: 1 November 2023 AoE

Organizers
Penousal Machado,
    University of Coimbra (PT)
Mengjie Zhang,
    Victoria University of Wellington (NZ)

More info at:
www.evostar.org/2024/eml

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