

A Continual Development Methodology for Large-scale Multitask Dynamic ML Systems

Intuition: Defining ML models as modular and extensible artefacts allows to introduce a novel ML development methodology enabling the integration of multiple design and evaluation iterations into the Continuous enrichment of a single unbounded intelligent system.

2 contributions: ① A novel method for the generation of multi-task dynamic systems (p2Net+)
② A novel development methodology integrating design and evaluation into the Continual and unbounded extension of an ML system.

<Method>

: extends p2Net with the intent of generalizing and improving its capabilities.

4 method extensions:

- ① Multi factor scoring function
- ② Improved hyperparameters search space
- ③ Additional mutation actions
- ④ learned $p(\cdot)$ function

